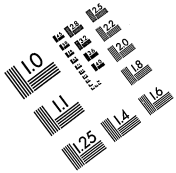

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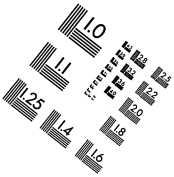
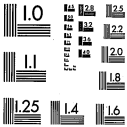
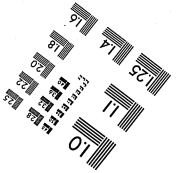
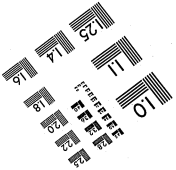


Centimeter

Inches







Thomas A Edison Papers

A SELECTIVE MICROFILM EDITION

PART I
(1850–1878)

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1878. Edison, T.A. - Articles (D-78-005)

This folder contains drafts of articles by Edison and related correspondence; requests for Edison to write articles; correspondence relating to articles about Edison; and letters from journalists seeking to interview Edison at Menlo Park. All documents have been selected except duplicate copies of correspondence and a page of electrotypes.

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Dear Sir:

Telephone is separate — but let us have a description of your own apparatus

Bell writes his Randolph ditcher is illustrated under Agricultural machinery and is a good machine

You can refer to it as you think best in connection with telegraphy

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Dept 18.

Frank Leslie's Publishing House,
537 Pearl Street, corner of Elm St.
one Block from Broadway.

New York Jan. 4th 1877

Dear Sir. It will afford us pleasure to make your Phonograph and other points of interest in connection with your researches, etc, subjects of illustration in our illustrated newspaper. If you will permit our artist to visit your laboratory for that purpose. If satisfactory to your wishes, please notify us as regards at what time it will be best

To send an artist,

Very truly Yours

Frank Leslie

P. S.—Please address all communications in connection with the above to

Department B,

FRANK LESLIE'S PUBLISHING HOUSE,
537 PEARL ST., NEW YORK

Frank Leslie
Jan 24, 1878

EDITOR'S OFFICE OF THE SUN,

New York, Jan. 8, 1878.

Dear Sir:

I am a sort of a Blueness hundred newspaper writer with letter to you from Mr. W. H. Painter of Washington, and want an interview for the columns of the Sun — something about the secrets of electricity and so on. Will you please designate a time and place where I can spend an hour or more with you? Being acquainted with Stewart, Ass. Press operator, I know some of your history and want to know you right bad.

Yours truly,

Amos J. Cummings

Prof. T. A. Edison.

[ENCLOSURE]

Edison

W H Painter
Feb 3. 1878

Washdc
1-3-78

Prof T A Edison
Menlo Park
Sir

allow me to introduce Amos J Cummings of the New York Sun. He wants to see & have a little talk with you over such matters as you can tell & show him that while they are familiar to you are yet untold wonders to the public.

Yours Truly
W H Painter

Frank Leslie's Publishing House,
537 Pearl Street, corner of Elm St.
one Block from Broadway.

New York, Jan 16 1878

Dear Sir.
You have not advised us as regards when it will be best to send our artist to your laboratory to sketch phonograph &c., for our Illustrated newspaper — Please make your reply "Personal" addressed to myself —

Yours truly
Frank Leslie per

Mr Edison Esq
Menlo Park
N.J.

A J Cummings
Feb 7. 94

Dun, Medford, Feb. 7.

Dear Sir:

Send word when. Don't count too much on machinery. I know no more about electricity or electrical machines, than a cow.

Very truly,

Amos J Cummings

Mr. T. A. Edison

Frank Leslie's Publishing House,
537 Pearl Street, corner of Elm St.
one Block from Broadway.

New York Feby 8th 1878

Dear Sir.

Yours of 6th inst. at hand — Cannot act send artist on 7th will do so next week and inform you when.

Yours truly
Frank Leslie per

Thos. A. Edison Esq.
Menlo Park.
N.J.

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

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WILLIAM ORTON, Pres't. } New York
A. R. BREWER, Sec'y.

Dated February 11th 1878

Received at Menlo Park

To D. A. Edison

can you send me a phonograph or drawing of the Telephone today

sig J. B. Prescott

D. H.

Blank No. 1.

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A. R. BREWER, Sec'y. WILLIAM ORTON, Pres't.

Dated New York Feby 11 1878

Received at

To D. A. Edison

Menlo Park NJ

I send a man to Menlo Park tomorrow morning to make a drawing of your Phonograph

G. B. Prescott

16 DH

READ THE NOTICE AT THE TOP.

SCRIBNER'S MONTHLY. ST. NICHOLAS.

SCRIBNER & CO., PUBLISHERS,
743 & 745 Broadway.

J. G. HOLLAND.
ROSWELL SMITH.
SCRIBNER, ARMSTRONG & CO.

NEW YORK, Feby 12th 1878

Mr T. A. Edison

Dear Sir

This is to introduce Mr J. F. Rungs one of our Artists whom we sent to make sketches of the Phonograph as requested by Mr Prescott.

Any assistance you may render him will be duly appreciated by

Yours Truly

A. M. Drake Sec'y S. M.

Dept. B.

Frank Leslie's Publishing House,

537 Pearl Street, corner of Elm St.

one Block from Broadway.

New York, July 12th 1878

Dear Sir.

If you can send us photographs of the Phonograph showing views of it entire & in part — or as you think best — showing it as affected in operation, etc — it will probably serve the purpose of illustration better than by sketches.

We shall therefore be pleased to receive them from you — together with such descriptive matter as you may desire to accompany them

Very truly Your
Frank Leslie &c
Jule Park, N.Y.

P. S.—Please address all communications in connection with the above to

Department B,

FRANK LESLIE'S PUBLISHING HOUSE,
537 PEARL ST., NEW YORK

EDITOR'S OFFICE OF THE SUN,

New York, Feb. 14, 1878.

Thos. A. Edison:

Dear Sir: I am going to Williamsport, Pa., to write up old Jake Hardie, to-night. Hope to be back in time to see you on Monday. If not will telegraph.

Yours truly,

Amos J. Cummings.

P.S. Hope electricity is not so much a fraud as "superfluity."

C.

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The rates of this Company require that all messages received for Transmission, shall be written on the Company's blanks of the Company, under and subject to the conditions printed thereon, which conditions have been agreed to by the sender of the following message.

WILLIAM ORTON, Pres't. | NEW YORK:
A. B. BREWER, Sec'y.

Dated Menlo Park Feb. 19th 1878

Received at Menlo Park

To T. A. Edison

Thursday Night

S. D. Reid.

2 P.M.

Depot. B.

Frank Leslie's Publishing House,

537 Pearl Street, corner of Elm St.

one Block from Broadway.

New York, Feby 21st 1878

Dear Sir.

Will you please return us the favor of your ~~T you~~ photograph, also a brief biography, just a few notes, relating to your history, etc. do for use in our illustrated newspaper —

Very truly yours

Frank Leslie pro.

Please address to

Depot. B.

Frank Leslie's Pub. House

etc.

Thos. A. Edison Esq.

Menlo Park

N. J.

Dept. | B.

Frank Leslie's Publishing House,
537 Pearl Street, corner of Elm St.
one Block from Broadway.

New York July 26 - 1878

Dear Sir -

If you should be in the city this week and have time, and will call on Mr Joseph Becker, Supt. of the Art Dept. of this establishment our photographer can take your picture on the premises, and our Editor can take your biographical notes -

If more convenient for you to have portrait taken at any other place we shall be pleased if you can furnish us with a copy, also brief biography - by Sunday next

artists will require
your photo about that
time. Fully yours
Frank Leslie Pub
Thos. A Edison Esq.
Menlo Park
N. J.

Leslie's
Pub

Baltimore Feb. 27th 1878

Thos. A. Edison Esq.

Dear Sir:

I have been greatly interested in the accounts I have seen of the capability of your recent invention, the phonograph, but I have not yet met with any description of the machine. I fear to ~~to~~ much trouble into you inform me when I can find a complete description of the apparatus ~~and~~ with illustrative drawings; also description and drawings of your telephone. If no such description has been published will you be kind enough to give me the dates and numbers of your patents on the subject.

Address care of The Gazette

Respectfully

Chas. M. Lundgren

Mr E D M T S Hall.

Prof Mayer of Hoboken is preparing a long article for the Popular Science Monthly on the Phono. This will also appear shortly in Scribner's Monthly next month also one in Frank Leslie's Weekly.

The N.Y. Sun about 8 days ago had 2 columns also Chicago Times or Tribune. Your patent will be issued next week =

Yours

C M Cluverius
Feb 22 78

New York March 2. 1878.

Friend Edison

I am in receipt of your enclosure from Fontana. I think it would be proper to extend the time as he requests. When you are here we will sign the extension.

I am going to publish a full account of the telephone, and want to give the point in June of which the Scribner article is a mere sketch. Tell you what I'll give such an account of the improvements obtained by your method on all other as you wish to have published & also the particulars as to the manner of their production. Also inform me where your Musical telephone can be seen. I will send an artist to draw it. I want to make the telephone as complete in its description as the telegraph is.

Yours truly

Geo B Prescott

EDITOR'S OFFICE OF THE SUN,

New York, March 7, 1878.

Friend Edison:

After leaving you I had to go out to Williamsport after an old duffer named Hendie, who gave away an $80,000 church and then failed for $2,000,000 without a cent of assets. This accounts for my not answering your gilt embossed note of the 23d. I have got hold of a telegraph operator that knew you in Boston, and am getting a damned good thing out of him. So that I shall want to answer you a little more about Tuesday of next week if you have no objection. You spoke about agging up a phonograph for me when I was down there. If you could do so it might save me some swearing, as friends of mine who read the "Bingen on the Rhine" and "Arch. Holden" article declare me the "damnedest liar that ever put pen to paper."

Yours, truly,

Amos J. Cummings.

Brown Ayres Esq
March 9 78

Stevens Institute of Technology,

HOBOKEN, NEW JERSEY.

March 9th 1878.

Mr. T. A. Edison,
Dear Sir:-

Will you please let me know what day next week it will be convenient for me to come out to your laboratory to confer with you in regard to the book.- Choose the most convenient time for you as I can easily make it suit my convenience

Very truly yours,
Brown Ayres.

ELECTRICIAN'S DEPARTMENT

WESTERN UNION TELEGRAPH COMPANY

GEORGE B. PRESCOTT,

ELECTRICIAN.

NEW YORK March 9 1878

Friend Edison

I desire to get my new book out soon as possible. Any cuts which you have I would be glad to use. The title will be "The Speaking Telephone and other Electrical Marvels". I shall put in everything I can which is not embraced in my other book. Will put in cut & description of your electric pen if you will send them to me. Try & hurry up your remarks on your telephone or I must make up article without waiting for you. Send me description of your Motograph, or tell me where I can find a good one. Don't let me fail to get in all you want.

Yours truly

Geo B Prescott

T. A. EDISON ESQ.
MENLO PARK, N. J.

DEAR SIR:

THAT LONG ARTICLE IN THE SUN WAS COPIED INTO BOTH THE CHICAGO TIMES AND TRIBUNE THE TWO LARGEST PAPERS IN THE WEST.

I SEND YOU TODAY A COPY OF THE CHI. TRIBUNE OF YESTERDAY WHICH CONTAINS A LONG ARTICLE IN REGARD TO THE PHONOGRAPH.

DON'T THINK MUCH OF THE ARTICLE BUT IT ALL HELPS.

RESPECTFULLY,

Geo. H. Bliss

GEN. MAN.

John Henning
Phon
Mar 16. 78

Moniteur Industriel Belge.

MÉDAILLE À PHILADELPHIE.

46, Boulevard Central.

Bruxelles le 16 March 1878.

Thomas Alva Edison Esq.
Menlo Park
New York.

Gentleman.

We should be very glad to publish in our paper description and illustration of your Phonograph, and have the honesty to ask if you would have the kindness to send us drawings, photos, articles and sketches.

We beg you to send a number of M. I. B. containing a description of Phonograph.

We are,
Gentlemen,
Yours truly,
Commissionaire Général
H. John Henning

(Eng. N. 636. P. 186.)

file
Phono

396 Strand
London. W.C.
16/3/76

T. A. Edison Esq.

My dear Sir - We are intending publishing a weekly illustrated paper devoted to electrical & cognate subjects - Sir Jas. Anderson, Mr Preece, Mr Preece, Lahmeyer, Mr Preece, Dr Muirhead etc have promised the paper - Many of the best known English Scientists have promised contributions - Such as - Prof. Sir C. Thomson P.R.S. - Prof Balfour Stewart F.R.S. - Prof Tait F.R.S. - Prof Adams F.R.S. - Dr Lodge, Dr Wormell, Dr Mill - Dr Garnett, Dr Whipple, Mr Preece, Lahmeyer, Mr Preece, Dr Hockin - H. Wills - Dr Muirhead etc etc -

I am writing to ask if you will favour us occasionally with contributions - E.g. I should be glad to receive your descriptions of your Phonograph - with diagrams for illustration - or anything you may please to send - The honorarium we propose for such contributions is 15/ per Col. or 30/ per page of 2 Cols - Each Col. contains from 75 to 80 lines - Each line average seven words - I trust you will be able to comply with this request -

Yours faithfully,
C. H. W. Biggs

T. A. Edison Esq.

Boston, Mass.,
March 17, 9

Dear Tom:

How are you these many years, since we took a parting drink on Broadway, in New York, one pleasant summer afternoon? I fancy you are well & full of business.

Some weeks ago I read in the New York Sun a story of Amos Cummings' about your latest product, that is to make the world howl; and now what I want is to have you send me a copy of that paper by return mail. Also send me any other papers you may have containing accounts of yourself and your inventions, and any fresh facts not yet

published that may occur to you. I want to publish an extensive (and a complimentary) article in the Boston Globe next Sunday, therefore please don't delay a single minute after you get this. Send the paper to my address at "Charlestown, Mass.," and do it right away.

Have been in New York considerably lately, but never been able to see you. Will be there again soon & look you up — Will send you some copies containing the notice when published —

Ever of thee,

Tom Maguire,

Charlestown,

Mass.

Blank No. .

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And this Company is hereby made the agent of the sender, without liability, to forward any message over the lines of any other telegraph company when necessary to reach the destination.

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The Company will not be liable for mistakes in any case where the claim is not presented in writing within sixty days after sending the message.

A. R. BREWER, Secretary.

WILLIAM ORTON, President.

_____ 187

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Please deduct 25 cts
[illegible]

Russell Brothers, Printers, 17, 19, 21, 23 Rose Street, N. Y.

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Geo. Wingate
Pharmacist
8

The World
35 PARK ROW.
Branch Office, 1187 Broadway,
New York.

March 18"

Dear Mr Edison

You will remember that in Company with Dr Green and Mr Cary of the Western Union I spent a day with you some time since and afterwards wrote a letter to the World about it. Your kindness to me on that occasion leads me to believe that you will not object to letting Mr Babcock, whom this will introduce, have the same facilities I enjoyed to see your many wonderful inventions, particularly the last one, if it is possible for you to have a last one while engaged, as I found you, on such a number

Faithfully Yours
Mr Palmer Sleeper

Prof. Cummings
New 23, 1878

Publication Office of "The Sun,"

New York, March 23, 1878.

Friend Edison:

Since my return from Virginia I find that Mr. Dana is at length satisfied that I have not been imposed on. He has read Scribner's and the Science Monthly, and astonished me on Wednesday by saying that they backed me up "in every word." He won't come to hear my machine run so into the Tribune, and as he wants to see it and know more about it I have invited him and J. S. Pike, late U.S. Minister to the Hague, to come with me and see you on Wednesday next. If I am trespassing on your time or annoying you by the visit, say so and it's all right. You will find Pike and D. two as sensible old blokes as you ever struck – as frills non flounces. I am beginning like Sinbad to long for that voyage of discovery.

Yours, just so,

Amos J. Cummings

Edison

[FROM WILLIAM K. APPLEBAUGH]

Managers.
HILBORNE L. ROOSEVELT,
CHARLES A. CHEEVER.

P. O. Box 5529.

THE TELEPHONE COMPANY OF NEW YORK,
32 TRIBUNE BUILDING,

New York March 22 1878

Dear Edison.

Mr M. A. Croffut one of the enthusiastic Editors of the "N.Y. Graphic", and by the way a good friend of yours, though unknown to you personally, desires to visit your laboratory some day next week - If agreeable will you kindly indicate two or three days when you expect to be home so that he can take his choice? - In case you find that you will not be there on any one of the fixed days please telegraph me - Mr Croffut has written an article which will appear in todays Graphic on the "Tiophone" I do not know from whom he got his points - The Graphic people have treated your inventions very squarely & I hope you will be able

To give Mr Croffut an interview

"Before
I go Mr. - Mr. Croffut, I understand you
are going home to-morrow, Mr. Edison?"
"Yes"

OFFICE OF THE

Scientific American,

MUNN & CO., Editors and Proprietors.

O. D. MUNN.
A. E. BEACH.

New York, Mar 26 1878

My dear Sir:

I have now reached the place for the insertion of "Telegraphy" in Appleton's Mech'l Dictionary — Please let me know the very earliest time you can let me have your article. Mere) like it sure before the 6th of April —

Yours
Park Benjamin

T. A. Edison Esq
Menlo Park
N. J.

Order — I must try and send it by the 6th —
yours
Park

[MARCH 1878]

Copy of
Order for Jack Benjamin
1878

Telegraph. There is at the present time many different systems of telegraphy in operation, all employ electromagnetism or chemical action in signaling.

The system invented by Morse and Henry in this country is the one most universally in use

In this system electromagnetism is employed as a motive power to actuate the apparatus in fig ——— is shown the transmitter, called a key. ~~which serves as a convenient and simple method of connecting or disconnecting the wires — the line at the point to the~~ [illegible]

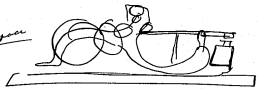
~~line where the Key is placed and thus control the flow of electricity through the telegraphic circuit of which it forms part. One end of the line is connected to the clamping post on the right, which extends upwards through an insulating material on the base of the Key. The upper extremity is tipped with either platinum or Iridium or soft on the under surface of the lever. These metals resulting to a~~ [illegible]

2 Dic Mec Telgh

Philips Key

which serves as a convenient rapid method of connecting & disconnecting the wires at the point on the line where the key is placed and thus control the flow of electricity through the telegraphic circuit of which it forms part. one part of the line is connected to the clamping post on the right, which extends upward through an insulating material in the base of the key. the upper extremity is tipped with platinum, or iridium as well as the under surface of the lever which rests on these metals resisting to a greater extent than others the destructive action of the electric spark which occurs at the moment at which the point are separated. The other part of the line is connected to the binding post on the left which is in metallic contact with the base plate. a retractile spring serves to keep the platinum point when raised and the points separated. When the lever is depressed to the left the points are brought together. The signals are formed by long and short waves breaking up the continuous flow yet indicated in F. "The short waves by a momentary depression of the key lever"

and the long waves by a depression ~~of quarter~~ of longer duration, These waves passing over the wire to the distant station ~~[illegible]~~ actuate the recording mechanism ~~[illegible]~~ record themselves by long and short indentations on a continuous strip of paper.



Get at here

~~The [illegible] consists~~.

The Register or recorder (see fig ——)

Consists of a train of gearing driven by a power from ~~[illegible]~~ a weight or coiled spring. ~~The [illegible] which seems to~~ slowly carry forward between two cylinders a continuous field of ~~of~~ soft paper ~~[illegible]~~ three quarter of an inch in width, in the ~~[illegible]~~ middle of the upper ~~[illegible]~~ cylinder or roller ~~[illegible]~~ there is a small groove around its circumference; in close proximity to the groove is ~~the~~ a indenting point upon the end of the lever actuated by the Electromagnet. The passage of a short

4 Dec Rec

wave over the line & through the coils of wire surrounding the ~~[illegible]~~ iron core, cause the latter to become magnetic and the armature ~~[illegible]~~ and lever is attracted for an instant to the core of the magnet, at the same instant the indentating point upon the other end of the lever ~~[illegible]~~ is brought in contact with the moving strip of paper pressing it into the groove and thus recording a dot. If a long wave is transmitted the lever remains attracted to the core of the magnet for a longer time and the indentating point makes a long indentation owing to the moving of the paper when the lever is attracted. This long indentation is called a dash and by a combination of one or more of these characters a distinct signal is given for each letter of the alphabet.

The invention is the combination of dots & dashes forming the letters of the alphabet and is ~~[illegible]~~ used upon the American lines, and with slight modification in all countries

Dr Dr Reich

Morse alphabet

Space

~~The Battery and recorder can only be worked~~ upon lines of considerable ~~length~~. In practice magnet effects. The recorder or register is seldom energized by the direct action of the current upon the line, especially upon lines of considerable length ~~[illegible]~~ like between New York and Washington. Considerable power is required to ~~pass~~ effect the indentation of the paper and the current ~~[illegible]~~ of sufficient strength cannot be made to pass through such an enormous length of wire except by the use of a very powerful battery. To dispense with the use of a powerful battery and obtain sufficient power to effect the indentation of the paper a ~~Relay~~ magnet ~~used~~ sensitive to feeble currents is substituted for the recording instrument in the line, and the latter is placed in a secondary or local circuit containing but a few feet of wire & one or two ~~cells~~ jars of battery

6 Dec 1866

- Relay -

Phelps.

The relay (see fig ——) is provided with an ~~magnet mounted~~ pivoted lever which ~~pivots~~ is limited in its motion by two ~~bearing~~ screws the one on the right being tipped with platinum, as is also the lever opposite to it. The spiral spring serves to draw the lever away from the ~~face~~ face of the magnet when the iron core ceases to attract the armature ~~[illegible]~~. The lever & point form part of the local circuit containing the register and serves to stop & start the flow of Electricity therein in the same manner as the signalling Key does in the main circuit as previously described. The relay being nothing more than a signalling Key operated by Electromagnetism instead of the hand of the Operator, ~~owing to the~~ If a wave is sent from the distant station the lever of the relay is attracted. the ~~point~~ lever & point

come in contact, closing the local circuit and energizing the register magnet and causing the indentation to be made corresponding to the length of the wave; The relay lever performs no work and working but the slightly movement is ~~of course~~ set in motion by a current impulse may time lines in sending them that required to indent the paper = For the transmission of dispatches in either direction, a ~~Key~~ Battery Key Relay and register is required at each station, and any number of stations may be included within the same circuit for this the selection of the operator at any particular station being called by repetition of a specific ~~bottom~~ signal ~~code~~ given to that ~~station~~ signal

The use of a field of paper for recording the signals ~~the magnet~~ is finding a gradual increase in disuse in this Country. ~~and~~ the sound which the lever of the register makes in striking its upper & lower limiting stops ~~is used & attached~~ upon the main lever proper line. The ~~time of opening & stop~~ ~~mov~~ mechanism is dispensed with and a simple Electromagnet

8 De Wee

where used instead. This is called a sounder & is shown in fig ———

Sounder = Bunnell —

This apparatus is placed ~~[illegible]~~ for the signals — the local circuit = In all European Countries a modification of the Morse or Morse all former ~~the~~ system is ~~almost universally~~ used, The modification consists in ~~dispensing~~ substituting an inking wheel for the indenting point and recording the dots & dashes by depositing ink upon the fillet of paper = Of late years many improvements have been introduced in the Morse-Henry system among which may be mentioned the Repeater of Gianetalon for repeating the signals from one Circuit or line into ~~another~~ a second ~~circuit~~, or any number of Circuits ~~thus enable it to provide~~ It is impossible as there are at the present time circuits to work at 60 or 70 words per hour by the aid of Repeaters, it is possible to transmit a message from New York to San Francisco through Repeaters stationed at Buffalo Chicago, Omaha Cheyenne Ogden & Salt Lake = ~~a thing impossible~~

1

9 Dec Well

~~and had has a perfect Contact,~~

The ~~[illegible]~~ of a dial is as follows the operator ~~at any close he key the~~ a The principle of the repeater is the same as the action of the relay + register in a local circuit circuit as previously described, upon hammering a signal from NY. the Electromagnet at Buffalo attracts an armature & lever included in the circuit from Bu to Ch; the Connecting points are bright in Contact and a powerful battery established at Bu is put on the Chicago wire, this causes the magnet at Chicago to attract its lever + close ~~the circuit or close the~~ a Local Circuit Containing a sounder or another Circuit Extending to Omaha; ~~they are kept controlled by magnetism~~ ~~The [illegible] of Double transmission~~ The greatest advance in this system has been made but recently in the introduction of the Duplex by Stearns and the Quadruplex by Edison, by the use of the former apparatus two distinct messages may

be transmitted over a single wire in opposite directions at the same time without interfering with each other. This is attained by arranging double coils of wire upon the apparatus at each terminal station. The apparatus at each terminal in such a manner that the transmission of a signal from one terminal will not effect the apparatus at that terminal. this is accomplished by surrounding the signalling magnets with double coils, and when the apparatus is so wound in opposite directions so that if a current be transmitted through one coil of the magnet not the line it is prevented from acting by the transmission of a current of equal strength through the other coil upon into an artificial line, the effect of the current in each coil is to set up two contrary magnetism hence no magnetism is produced but such a balance does not obtain at the distant other terminal hence the signal is received, that

the transmission of a signal from the other terminal takes place in precisely the same manner. ~~There are~~ ~~Cut off the current at the other end,~~ ~~and~~ upon the ~~passage of the current at the other end~~ upon the ~~red line which is absent upon the artificial line. Cut the other end~~ ~~has been Compared which is an perfect balance.~~ ~~Cut the phenomena~~ whether any ~~upon the passage of the current through the red line have been successfully imitated upon the artificial line,~~ ~~here.~~ The Quadruplex, which transmits 4 messages at the same moment, is superior to the Duplex, which is proof replacing the Duplex, both in this Country and in Europe, it is Complex ~~but~~ to admit of a clear Explanation ~~in such a manner~~ except with a number of diagrams; ~~the principle upon which it is based is that one message~~ ~~two messages~~ two messages are transmitted by increasing & decreasing the strength of the

Currents at each terminal and the other two by altering the direction in which the current flow at each terminal. at each station there are two relays or magnets ~~are two~~ ~~are~~ one relay of ~~magnet~~ which responds only to strong currents independent of their direction in which they flow through the ground, while the other responds only to a change in the direction ~~or not~~ of flow.

Printing Telegraphy. The apparatus of this kind in most general use is that of Prof Hughes of Kentucky. It is however not used in this country but very generally in France & Germany. ~~The principle and the problem~~ Two type wheels are kept in rotating synchronously together at each station by means of ~~clockwork~~ a train of gearing, provided with a governor; connected to the mechanism is a hammer, cylinder, arranged with a contact by a key board having a key for each letter of the alphabet.

a printing lever ~~is~~ controlled by an electro magnet placed in the main line, ~~which is closed~~ opened by ~~the~~ ~~devices connected to the~~ Key-board, ~~which the~~ type wheel is ~~arranged to~~ effect the printing of a letter upon a long fillet of paper which the type wheel is in motion by a movement Executed with great rapidity, such movement being made by the energizing of the controlling magnet by the transmission of a simple wave from the the distant station at the proper time, ~~at the same time that the~~ simultaneously with the printing of a letter ~~is effected~~ the type wheel by the action of the printing lever is either thrown slightly forward or backward thus Correcting at every impression any slight variation in the synchronous movement of the type wheels ~~of the~~ transmitting mechanism. The best apparatus of this character is that of

invented by E. M. Phelps, and is used upon the lines of the Western Union Telegraph. The clock train of operating is replaced by a simple but powerful electromotor and the defects of the Hughes ~~machine~~ apparatus ~~corrected~~ are entirely eradicated, and the speed of transmission greatly increased.

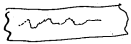
The Hughes & Phelps apparatus are only adapted for work on long circuits. Many simple printing machines have been devised of late years for use upon short wires opened by private firms and for ~~use~~ transmitting from a central station market quotations to various parts of a city receiving these on printing upon slips of paper. These generally consist of a type wheel rotated step by step by means of a lever ~~pawl and ratchet wheel~~ reciprocated by an electromagnet by the transmission of a series of impulses ~~over~~ the circuit in which it is placed. The lever causing the type wheel to revolve by means of a pawl & ratchet wheel

[illegible]p by step, when the letter required to be printed is brought in a proper position another electro magnet ~~[illegible]~~ attracts a printing lever and effects the impression. The printing magnet is ~~[illegible]~~ worked independent of the type wheel by ~~[illegible]~~ varying the strength of the current. ~~[illegible]~~ by ~~the~~ cessation of the rapid impulses which represent the type wheel lever or by ~~[illegible]~~ changing the direction in which the current flows through the circuit.

Printing instruments for private use have also been invented which work upon the magneto electric principle dispensing with all batteries the current being generated by magneto machines set up in the act of transmitting the message.

The Needle ~~Telegraph~~ System of Wheatstone, once exclusively used on the English is fast growing absolete being replaced by the American systems.
The Mirror System was invented by Sir William Thomson and is exclusively used ~~for short~~ only on long submarine Cables.

Cut & discipline with



The Autographic System — By means of this system messages may be transmitted in the hand writing of the of the sender. and as well as picture or anything which can be executed with a pen. The most successful apparatus are those invented by Casselli & Meyer. both of which are in use upon one or two lines in France —

The Cassellí apparatus consists of two large pendulums kept swinging in unison by electromagnets placed in the line wire, each pendulum having a wire attached which acting upon the magnets causes them to correct any variation from exact unison of swinging.

Connected to one pendulum is the transmitting & receiving apparatus. The message for transmission is written upon metallic foil by a non conducting ink this is laid upon a platten connected to the battery, a fine platinum wire is reciprocated from one end of the foil to the other the foil being advanced $\frac{1}{100}$ of an inch after each reciprocation. until the point has passed over the whole of the foil, at the point where passing over the foil. allowing the current from the battery to come over the line, but at all points where it passes over any the non conducting ink of or with which the message is written, the current is prevented from passing into the line.

at the distant station was a similar point reciprocated over a platten upon which was laid a sheet of chemically prepared

paper, ~~which by the action of the Current upon the point produced a blue mark~~. The passage of the Current through the respective point and marking paper caused a blue mark to appear; if both pendulums are started at the same instant. ~~thus showing that~~ the metallic foil upon which the message was written will be connected (or repeated) upon the channel paper by blue lines blending one into the other ~~[illegible]~~ ~~[illegible]~~ Owing to the non harmonism of any Current when the transmitting point passed over the non conducting ink ~~the~~ no mark were made ~~[illegible]~~ ~~[illegible]~~ appear; white upon a blue background, by reversing this action and causing the character to be recorded in blue upon a white back ground. The ~~trouble~~ inconvenience of preparing the message ~~[illegible]~~ as well as the complication of the apparatus has prevented the general adoption of the system. The apparatus invented by Myer is more simple than that of Casselli.

recording by
Chemical action is replaced by an recording
with ink. The apparatus at Lichfield, however, keeps
moving synchronously by pendulums,
Automatic Systems. ~~There are three systems~~
In this system the transmission and reception
of the message over the wires is conducted
Entirely by Automatic Machinery. There are
three systems in use, that of Wheatstone
Edison & Siemen Halske, and are based upon
the same principle of the ordinary loom of a spool of paper to be given
the action of a form, which is the preparation of the message by perforation
the strip of paper, Chandler Bradford
There are three essential mechanisms in the Automatic
system first the perforator for preparing the
message by perforating the characters
~~by~~ in the strip of paper, Second the
transmitter for carrying such characters
to be sent in the form of electric wave-
Third the ~~ch~~ Receiver which carries
forward a strip of paper upon which
the characters are recorded
Either by Chemical decomposition
of ink

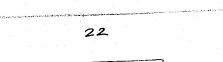
The Wheatstone punches consists of three keys, one for the dot one for the dash and one for feeding the paper forward a distance after each letter has been perforated by the operator keys, which speed is 15 to 20 words per minute. The Siemens Halske system consists in sliding up in perforator is similar to the Wheatstone. The Edison perforator consists of ~~25 key~~ a key board of 28 keys. The depression of any key perforates the letter & feeds the paper the proper distance forward, at a speed of from 35 to 50 words per minute.

The Wheatstone transmitter consists of a clock movement which sets in rapid vibration two rods, against the perforated strip as it is carried along. These rods which upon the strip to approach the electrodes, when the strip contains no perforations, strike against the paper and are limited & prevented from transmitting a wave over the wire. But when a perforation occurs the rod or rods pass upwards through the hole & thus greater latitude of movement to allow the current closing lever to come in contact & a wave is

harmonized ~~on four~~ the action of one serves to harmonize an wave in one direction while the action of the other rod seems to harmonize it in another, direction than the characters are harmonized by reversal of the direction in which the current flows through the line, a fact necessary with this system owing to the peculiar arrangement of the receiving mechanism (the armature of the receiving electro-magnet is left free to move forward or backward in sighting, etc.) This seems that the system cannot be worked with a magnetic electric apparatus from the current necessary for cannibalizing. Being the phasing and the will actuate in one or the other direction by the harmonizing of the current so generated is regulated by the groups of perforations, ~~thus~~.

In Edison system the ~~paper is~~ consists of a drum connected to the battery or earth, which serves to carry the paper forward with great rapidity. resting on the paper is a double opener (lapped with a sheet platen) which is ~~made of~~ mounted with a wheels ~~of~~ (three of which connected to the line) and arranged so that they will come in contact with the drum when a hole in the paper ~~also~~ passes under them, and thus connect the line with the battery =

Fig — shows a strip perforated with Edison apparatus



~~A be the most the~~ the first group of hole requires a ~~a~~ clock ~~block~~ series to account a long wave. the upper ~~hole~~ perforation is used in conjunction with one school to bridge over the interval between the two lower perforations by keeping the line in contact with the drum while the other wheel is passing the space between the two smaller holes. The recording apparatus ~~employed~~ consists of a clock work for drawing the paper forward and a polarized magnet and electromagnet which gives motion to an ink wheel. The electromagnet is polarized by having ~~its turns~~ its coils made permanently magnetic hence it responds only to signals formed by reversing the direction of flow of the current through the wire, a positive current for making current the polarized magnet to bring the ink wheel out of an ink reservoir onto the paper and contains to deposit ink

upon the paper until a negative current is transmitted and which causes the magnet to attract the lever and wheel away from the paper. The system is only employed in England, the highest speed attained ~~operation~~ is 180 words per minute, on short lines. The average speed on all lines is 100 words per minute.

The receiver of the Simon Holske system is similar to that of wheatstone & the speed about the same.

The receiver of Edison system is an Electro chemical one the character being formed by the electro decomposition which takes place when a current of electricity is passed through ~~Cotton~~ ~~the paper~~ moistened ~~with cotton~~ ~~chemical solution~~ by means of a metallic wire resting upon it & a drum rotated by a crank serves to carry forward the moistened paper.

The drum is connected to the earth.
a wire resting upon the paper is connected
to the line. ~~The solution employed~~ the wire
usually brass is tipped with metallic
Tellurium. ~~the~~ When no current passes
through the line point paper & drum no
mark is made, but if a simple wave is
transmitted the passage of the current —
through the moistened paper causes
the decomposition of the water setting
free oxygen & hydrogen. the Hydrogen
combines instantly with the Tellurium
to form Hydrotelluric acid, and almost but
not quite simultaneously the acid is
decomposed by the action of the air
depositing finely divided Tellurium upon
the paper and leaving a very blackish brown
mark the width of the wire + of a length
Equal to the length of the electric wave
transmitted. The characters are recorded
with extraordinary rapidity. 3150 words
have been transmitted from ~~[illegible]~~
Washington + recorded by this means

in Neg. in one minute, and the characters are so sharp & clearly defined that a system of fifty words containing 5 can be recorded in 1/5 of a minute. The record is permanent. The system another modification consists in using an iron point and moistening the paper with Chloride of Sodium & Ferridcyanide of Potassium: the passage of the current causes the formation of prussiate of iron on the point, and the ferridcyanide combines instantly with it to form Turnbull Blue, the results are not equal to that of the Calomel point, An important adjunct to the system is by means of which such a high speed in transmission is attained is the use of a system of Compensation whereby the retarding effects of what is known as the static or after charge is rendered null on lines of considerable length, The Compensator consists of a series of Electro magnets contained in an artificial line at both the transmitting and receiving

station. The passage of the current through the line sets up the station or after change which the passage in the subsequent lines changes the magnets which upon the cessation of the main current the Extra Current from the magnet ~~balance~~ ~~all~~ having a tendency to pass ~~on~~ into the main line in an direction ~~to~~ balanced by the ~~set~~ tendency of the station or after change to pass in the opposite direction; hence the moment the battery is disconnected from the line, the signal upon the channel paper crosses ~~[illegible]~~ were no compensation and the character would at high speeds be so prolonged as to ~~[illegible]~~ run into each other & make a continuous unreadable mark — ~~[illegible]~~ This system has been in use for a number of years in this Country —

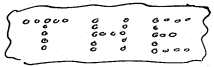
Many other automatic systems have been devised but those above mentioned are the only ones that have come into extended use

~~Among~~ Among Typo Telegraph Systems. In this system the ~~the~~ a panel Roman letters are transmitted & received automatically. The first system invented was that of Bonnelli's ~~the~~ The transmitter consisted of a travelling carriage moved by power. the message being set up in type which were connected to the battery and earth, a comb of five points was placed in line with the type so that the passage of the type under the comb caused the prongs to touch all part of the letter as it passed rapidly under it. each prong was connected to a wire, hence five wires were employed between the transmitting & receiving stations, at the distant station an identical comb of five prongs was used the prongs tips being formed of platinum these rested upon paper moistened with a solution of Nitrate of manganese, or Iodide of potassium

The paper was carried forward by a train of wheels, which stop. In the transmission of the letter T for instance the five prongs at the transmitting station came in contact with the letter simultaneously hence each wire received a short wave which passing over the line & through the points upon the chemical paper caused a decomposition of the manganese salts & left five dots one above the other, and in the case of the letter T the ~~four lower~~ upper five came in contact with the top portion of the T ~~before~~ which the other were not in contact with the upper hence the first ~~pa~~ point transmitted a long wave which was recorded by the top point of the receiving station while no current was transmitted on the other four wires except when they all came in contact simultaneously to form the lower part of the letter by the system 1000 words ~~been~~ an hour per minute have been attained on short lines — Fig — shows a strip recorded by the Bennett system

~~It was at one time said~~

The American System devised by Edison is based upon the same general principles as that of Bonelli. but the devices are entirely different. Instead of setting up type ~~to enable~~ to transmit the messages the letters are formed by groups of holes perforated in filets of paper by a perforating machine. for example the word. THE. so perforated



The perforating machine consists of a disc with 25 holes massed in a square into which 25 punches are fitted. each punch is connected to a ~~long bar~~ separate length bar. These bars are provided with pins. ~~[illegible]~~ at certain intervals by means of which the bars necessary to form a letter are caused forward by the depression of a key. there being 28 keys in all, ~~each~~ a depression ~~of~~ serves to perforate an entire letter

and read the paper forward, the average speed of preparation is from 35 to 40 words per minute although a speed of ~~100~~ 90 words has been attained by a very expert operator. Two waves are employed for transmitting the characters, but one half of a letter is transmitted at once; ~~the~~ The record is made upon chemically prepared paper as with the Bonelli system. A speed of 1200 words per minute has been attained with this system by Salmon New York & Philadelphia. Acoustic Telegraph. This system now being developed. The principle upon which it operates is the transmission simultaneously over a single wire, ~~each source of power being~~ having a different rate by means of tuning forks of reeds adjusted to a definite pitch or rate of vibration. and the reception and amplification of the waves by similar tuning forks & reeds at the distant station

the most successful system without ~~of Elisha~~ Gray ~~of Chicago~~. This consists of several reeds; ~~(~~ each tuned ~~to each other pitch and~~, to ~~to~~ make different number of vibrations per second than the other; each reed is provided with electric ~~con~~ contact springs which act to throw in circuit of the line, a small battery at each vibration of the reed, ~~the transmitter is connected to each and~~ each reed is kept in continuous vibration by an electro magnet local battery & a supplemental contact spring. The vibration of the reed serving to open & close the circuit of the magnet which gives it motion in the same manner as the ~~circuit~~ automatic circuit breaker of an induction coil. A Morse key is connected with each reed to enable the operator to stop & start the waves over the wires =

The different series of waves which pass over the wire simultaneously are separated so to speak at the distant station by means of reeds, tuned to the same pitch as the reeds at the transmitting station, hence if at the transmitting station five reeds are in vibration & are transmitting their waves over the wire the five Reeds at the transmitting station will be set in vibration by the action of those waves on the Electro magnets with which each reed is provided, if now by the disposition of an Morse key connected to any reed the waves from it will be prevented from passing over the line and the reed tuned to respond only to this series will come to rest almost instantly notwithstanding the other waves are energizing the Electro magnets the reason being that when certain Conditions the reed can only be made to respond to waves which follow each other a certain distinct

relays, ~~no matter how powerfully the magnet may operate~~ by manipulating the keys connected to each reed sounder messages may be transmitted simultaneously the characters being read by the different musical sounds given out by the respective reeds when they are clapped & released. Bell, Edison, La Cour & Varley each have devised systems similar in principle to that of Gray but none have been so perfected as to come into actual use. Fire alarm & district telegraph systems. These systems are employed for local telegraphy usually in large cities. The former for transmitting from various parts of a city to a central station a fire signal, from whence it is retransmitted by automatic machinery to various towers containing Bell's enclosed bar magnets & spaced ~~of the bars~~ by wires connected to the central station

The latter captain is the same in operation
to principle is used for ~~[illegible]~~ ~~calling~~
~~a~~ connecting telegraphically a central
office with private dwellings, stores &c
to enable ~~the~~ owners to call to their aid
either a messenger a policeman or ~~the~~ a
~~fire~~ channel fire engine, ~~the~~
The apparatus for transmitting the signal
which is generally a number of minutes
a wheel provided with ~~teeth~~ a number
of teeth to form a signal, the spaces
between the teeth being filled with a
non conducting substance such as
wood, resting on the rim of the wheel
is a central spring which is connected to
one end of the line & the wheel to the
other, by means of a lever ~~and~~
~~clock work~~ which is moved through
a considerable distance by the sender
of a special signal, a spring is wound up

Sufficiently to set a train of gearing in motion and give a the character wheel several rotations, then Caesar the signal to be repeated over then were many times; at the receiving station an automatic Morse Regulator is set in motion by the first signal & records the subsequent signals by indentations on the paper; this signal is at once seen by the operator in attendance and to act the Bell (Tower Clock) the alarm bell, where it is reproduced made audible throughout the city. In the case of the electrical telegraph the apparatus is so arranged that when the lever is carried round for a given distance the character wheel is caused to give one revolution which signifies a message refused

still function to a ~~given~~ marked point the
wheel number 2 revolution which signifies
that a phenomenon is wanted while of the
hour is carried to the full hundred.
The wheel gives 3 revolutions repeatedly
the signal 3 times signifying that
the first enlightenment is required to
enlightenment an important fire;
Miscellaneous Systems;
Magnes.

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Did you see my hoax? And are you in a state of fiery wrath? Or how is it?

I regret to shock you with the intelligence that my description of your victimizing machine to be copied all over the country.

Thoroughly yours

W. A. Croffut.

I want to borrow a phonograph a little while to experiment with. Have you got an old rusty one anywhere? If not, never mind.

W. A. C.

Apl 4th

Message. From New York to
T. A. Edison
Telegram received I will come to see you
by next train
Sig
L. S. Metcalf

file. Memo

Message.
From New York
to T. A. Edison.
Please meet me at Phonograph rooms
23rd Street at twelve if you come to-day
Sig L. S. Metcalf
Editor Nth American Review.

Recd by Bachelder
from U.S.

E. H. Johnson, Room 25 Tribune Building =
Can I see proof of Review
article early monday morning

T. A. Edison

Sent Blatchelin
Apl 8 Geo Hussey

Blank No. 1.

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The rules of this Company require that all messages received for transmission, shall be written on the message blank of the Company, unless and subject to the conditions printed thereon, which conditions have been agreed to by the sender of the following message.

WILLIAM ORTON, Pres't. A. B. BREWER, Sec'y. } NEW YORK.

Dated New York Apr. 8th 1878

Received at

To Thos A. Edison

They telegraph that they cannot be ready Monday, will give a letter tomorrow and will then communicate with you

J. G. Speed

19 paid

New York, April 8. 1878

My Dear Edison:-

The bearer hereof is a good fellow — Mr. Van Campen, of the Graphic. Please receive him with open arms Ed., as you have kindly done all of our other friends. If you are gone to meeting he will sit on the stoop till you come home.

Your most truly
W. A. Croffut

Graphic office, Ny.,
April 9-

Dear Mr. Edison:-

You have made my heart very glad by your generous offer of a phonograph. It delights me quite. If the machine you speak of is possible, return, Wednesday ~~next~~ return, please drop me a postal card & I will come down Thursday & get it for a short time, & talk. also.

I wrote a column & a half about you which was in that paper last Wednesday. My report of my visit to you has been copied in the Cincinnati Commercial

Property of Rutgers, The State University of New Jersey

from Graphic into hundreds of papers.
I have very pleasant letter from Dr.
Holmes (Oliver Wendell) about Food & Creeds
this morning. I have written a column
about you! which will be in Graphic
to-morrow, accompanying portrait
&c. Don't fail to let me know if the
phonograph comes.

Delightedly yours
C. Wadsworth

Geo. H. Ellis, Gen'l Mgr.

OFFICE OF ELECTRIC PEN & DUPLICATING PRESS.

220 to 232 Kinzie St. Chicago Oct 13th 1878

T. A. Edison Esq.
Menlo Park, N. J.

Dear Sir!

I send you a dozen copies of the Tribune as promised.

The Mania has broken out this morn in School-girls write compositions on Edison; the funny papers publish squibs on Edison; the religious papers write editorials on Edison; the daily papers write up his life; the Rev. Wooldbury is writing a magazine article on Edison &c &c

When shall we get a visit?

Respectfully

Geo. H. Ellis

E M.

Why don't the Graphic fill up ex cheerily with Edison and Shore with E.

THE DAILY GRAPHIC $5000 PER YEAR.

LITHOGRAPHY AND PRINTING.

THE GRAPHIC COMPANY,

New York, April 17 1878.

Dear Edison:-

Thanks for dispatch. Applebaugh has a pile of tin-foil here about 2 inches by 18 — said that what is wanted? If so they will supply me. I am anxious to get the thing to talk for us Friday

Yours gratefully
A. A. Griffith.

N. J. Carter
Apr 22 78

7 Arnold St.
Boston, Mass.
April 22, 1878

T. A. Edison, Esq.
Dear Sir,

I am directed ~~to~~ by Messrs Estes & Lauriat, of Washington St. Boston, to apply to you for the latest, most reliable and comprehensive account of your Phonograph. They have instructed me to prepare an article for their Work, "Half Hour Recreations in Popular Science," properly illustrated, and to make about 50 or 60 pp. 8vo., written in Cyclopædic style, and suitable for popular perusal. The time designed for its production is very limited; I have no data by me regarding the inventor; and I have not been able to obtain the ~~see~~ copies of the N. Y. "Sun" and "Graphic" which contain some of

the details. If, therefore, you could favor me by transmitting, per return mail, if possible, any detailed and illustrated description thereof you would confer a great obligation on

Yours respectfully

Geo. J. Garbit, M. D.

P.S. You may rest assured that you will receive the fullest credit for the invention in our papers; no other name would be mentioned but yours; and any documents entrusted to me would be faithfully returned as soon as [illegible] by me. Await reply at earliest convenience.

Send him copies of all the papers mechanic (or) Graphic Herald &c. &c. & write to him & say what you have sent & say that the next number of the North American review will have an article, give him names of papers which contained the best articles,

Sun Herald - May 22d
Chic Journal Apr 3
Evg Star Apr 17
Phil Engineer Apr 16.
Phrn Journal
Graphic - Apr 2

Come and see C.C. Lewis Cleveland

Larger Circulation than all the other Morning Papers Combined.

Publication Commenced December 6, 1877.

Circulation January 6,	. .	4,000 Copies.
" February 6,	. .	6,724 "
" March 6,	. .	8,275 "

OFFICE OF

THE DAILY POST,

Washington City, Apl 23. 1878.

T. A. Edison. Esq.

I regretted very much missing seeing you when you were here. although our reporters took fully part care of you. We also published to-morrow a part of Mr. Cox's lecture relating to your wonderful invention & shall send you some copies. Would it bother you if I found time to drop over to Menlo Park, on my next trip to New York, I think to be a prisoner. but if you have many as fervent admirers as I am proud to confess I am you would be obliged to add to the unparalleled genius you have shown the power of seeing nature

Respy. Wilson Whitehurst Edr. Post.

Prof. J. Garbet.

Menlo Park N.J. April 24. 78

Dear Sir

My assistant will send you what papers we have; Articles have appeared in N.Y. Sun March 10 78 Feby 27 1878 Cincinnati Commercial Mar 11. Column Editorial, Graphic March 15 Illustrated London Engineering Mch 8 1878. 2 pages + illustrated Lost.
Scribners Mo April — Scientific American March 30, N.York World Mch 21 Harpers Weekly Mch 30, Illustrated full page. Graphic Mch 21. full page funny Illustration. Scientific News Mch 15. ~~Sylvan Editorial London Daily Telegraph~~ N.Y. Times, Aerophone: 2 column Editorial funny London Weekly Graphic, March 16, 78 - Illustrated
Lost No Popular Science Monthly

T. J. Gordon

T. R. Dean Esq. 7 Arnold St.
Dear Sir, 25th April 1878.

Received your favor of the 24th inst. for which kind attention please accept my sincere thanks. Have tried to get the undermentioned Journals, but failed most ignominiously:
"London Engineering" March 8.
"Scientific American," March 30.
"N. Y. World," March 21.
"Harper's Weekly", March 30.
"London Weekly Graphic," March 16.
"Scientific News," March 15.
"New York Times" "Aerophone".
I am very much pushed for time, or I would search further than the city of Boston, but I cannot. As I wish to give a full and correct

cally correct account of the "Edison Inventions," I should be glad, if you had only rolled copies of the papers printed, if you would send them to me. The purpose engraving the diagrams, and to extend the article to 60 pp.

Awaiting favor of early reply

I remain, Yours fritt/fully

Geo. M. J. Gerbit, M.D.

THE DAILY GRAPHIC $20.00 PER YEAR.

LITHOGRAPHY AND PRINTING.

THE GRAPHIC COMPANY.

New York, April 25th 1878.

Dear Mr. Edison:-

Hurrah! your name has gone abroad among all nations & peoples! Every paper I take up is full of you — not less than 190,547 columns in American newspapers every day. Did you see my Cincinnati Commercial article?

I want to get another little illustration from you for the Graphic if you will come in sometime, as soon as possible (when up in town.) (41 Park Place.)

I am delighted to state that the little phono. works beautifully. I received some fine cut at Matteson last Friday evg, & others up at Birmingham,

Cam., (at my father's) about Sing, (not less than a hundred & fifty thousand pounds) and they all heard it & were much delighted.

The letters you wrote me have attracted as much attention as anything else I am pretty accustomed. (It is in connection with your mythology & I would two additional illustrations.)

I hope you will be able to spare the machine without much inconvenience, as it is giving great amusement.

Most cordially yours:
O. W. Holmes

I copy from the Chambers Journal.

(Apr. 26 1878)

I propose the preparation of a pamphlet of 150 to 175 pages containing a biographical sketch of Mr Edison and a chronological account of his chief inventions, especially the telephone, the phonograph and carbon (with their practical applications), the whole illustrated by cuts, and accompanied by a portrait. Such a pamphlet would not, I think cost so much as $500 for composition and press-work and could probably be sold by tens of thousands at 50 cents each. It could be profitably translated into French and German, and would find a large market at the Paris Exposition. Advertisements of the several companies having interests in the various inventions would go a long way to cover expenses of printing.

Menlo Park Apr. 26. 1878

Porter L. Bliss.
40 Seventh St
N.Y.

OFFICE OF

R. M. WASHBURN,

PUBLISHER OF

The Peoples Library.

SOLD ONLY BY SUBSCRIPTION.

Burlington, Iowa, May 6 1878

Mr Edison Inventor of the Phonograph
Menlo Park N.J.

Dear Sir

I expect you are troubled with many letters in regard to your late invention. I would consider it a favor and take great pleasure in publishing a short Biographical notice of yourself and giving an account of some of your most prominent inventions. I would like an article of about two pages My work is only sold by subscription. It is published in Chicago but I reside in Burlington Iowa Yours Respectfully

R M Washburn

Graphic Off. May 9.

Your received - Can't print the poetry
less than 1.47 a line. Births and
marriages gratis. If you don't send
that autograph letter mentioned
Eg. I'll publish your epitaph &
obituary — also gratis. Have you
seen Cheever about that other thing?

Ever & Thine
Geo. D.

SUBSCRIPTIONS:
Single Copy, $3 per annum.
Five Copies, $1 "
Nine Copies, $2 "
POSTAGE PREPAID.

The Spirit of the Times,
3 Park Row, (ADDRESS P. O. BOX 828.)

New York, May 10 1878

Dear Sir.

I am very anxious to obtain the time of an interview with you, for publication in The Spirit of the Times, on the subject of the ~~telephone~~ Phonograph. My object is to write an article on the special subject of the use your wonderful "discovery" will be to music & its composition etc. I am the

dramatic editor of the Spirit
devotes all the articles in the
dramatic and musical
dep. of this paper. I am anxious
that an article should be quite
original & illustrated by experiments
on the study of music only.
If you answer appointing
time to meet, will equally
favor yours &c

Most truly
R. Davey.

Dates cannot be given
correspondents punctually
as you indicate

EDITORIAL ROOMS.

THE DAILY GRAPHIC.

Nos 39 & 41 Park Place.

Hush!

New York, May 10.

Dear Mr. Edison:—

Obedient to your suggestion, but with a feeling that it is awfully impudent in me nevertheless, I send you a scratch indicating what would be agreeable to me. But, bless you! don't follow a word of it if it seems not quite the thing. Alter, amend or abolish at will, only send me your handwriting! I don't get so many interviews & pleasures & yours is than to mine! Have written another letter to Gen. Cam. of Sept Sunday, alluding to your friend. Thanks — thanks — another thanks, for your offer to write letter at least to-day! Yours always truly Max Orpheus.

[ENCLOSURE]

(Superscription)

To the editor of the Daily Graphic,
New York City.

(Letter)

Dear Sir:— I feel an inclination to thank you for the pleasant things you have said about me and the phonograph in the Graphic. ~~Of your words of praise~~ Your words of praise have gratified me the more because I had long since come to look upon your paper with pride and to regard such an illustrator of Daily events as one of the marvels of this age. I am able to report to you that I am constantly ~~increasing~~ improving the durability & power of the phonograph, and feel certain that it will ~~fly~~ justify all the hopes of

Yours

[ENCLOSURE]

2/

its friends. By the way, Coffeen's April-Fool Joke concerning my alleged food-machine has brought in a flood of letters, inquiring about it from all parts of the country and world. It was very ingenious.

With congratulations on the great success of your journal, I am

Yours Very Truly

Thomas A. Edison.

Editorial Rooms
of Scribner's Monthly,
743 Broadway,
New York.

May 15 - 1878.

Thomas A. Edison Esq.

Dear Sir:

May I ask your courtesy for Mr W. H. Bishop, who seeks you in order to obtain material for a sketch of your work & career for the instruction & entertainment of our readers.

Yours very truly

Editor Scribner's Monthly.

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company **TRANSMITS** and **DELIVERS** messages only on conditions, limiting its liability, which have been assented to by the sender of the following message.

Messages to be repeated cannot only be repeated, message back to the sending station for comparison, and the Company shall not be responsible for mistakes or delays in transmission or delivery, or for the non-delivery of messages.

This message is from **UNREPEATER DESIRABLE** and is delivered for repeat at the sender's risk under the conditions immediately.

A. R. BREWER, Sec'y. WILLIAM ORTON, Pres't.

Dated New York 15 1878

Received at 6 Hotel

To T A Edison

READ THE NOTICE AT THE TOP.

Can see Lawson
Sorbnix Monday
Tomorrow Thursday
Sixteenth

W. H. Bishop
15 West 26 St

Invite me at Hotel all day
thursday —

T A Edison

Capt Stuart

My Sister.

Dear Sir.

I had the pleasure of meeting your bro. for a moment, introduced by Mr Crofford. I enclose a note from Colonel Buck mentioning me again.

Could I see you on Saturday, (the day after to-morrow.) Cabins

Capt Stuart
Care Genl Beauregard
Corinth

Leave on the 3 P. M.
train.
If would be motored,
(Friday) be most
convenient.
An answer will
reach me at the
Graphic office.
Yours etc.
Wolfhart.
Mon. 1 P.

THE GRAPHIC COMPANY
PHOTOGRAPHY AND PRINTING

[ENCLOSURE]

Spirit of Times
May 16

The Spirit of The Times,

No. 102 CHAMBERS ST., Cor. Church,

E. A. BUCK, Editor.

New York, May 16th 1858

My Dear Sir,

I send Mr. Stuart to you instead of Mr. Parey and I think that between you something of value will be elicited relating to the musical properties of your wonderful invention.

Mr. Orton at the Bayard Taylor Dinner kindly

[ENCLOSURE]

promise to assist me in
obtaining an article from
you on this subject.

A proof of whatever
Mr. Stuart writes will be
sent you for revision.

Yours truly,
Chas. Eubanks
Editor.

Mr Thos. Edison
Menlo Park

Mr. Edison.

Your work page [illegible]

Two only are [illegible] to [illegible] invention

unsigned [illegible] good thing

[illegible] A. K.

F. A. LISIEWSKI. A. K. SCHULTE.

German Publishing House,

OF

F. LISIEWSKI & CO.,

No. 639 Arch Street,

PUBLISHERS OF
Philadelphia Sonntags-Journal,
Evening-Journal,
Courier-Post, & Sunday-Courier,
The Illustrated Mirror,
Quarterly Illustrated.

Philadelphia, May 17th 1878

Thomas A. Edison Esq.

Menlo Park, N. J.

Esteemed Sir: We intend to publish in our German Illustrated Almanac, entitled "Illustrated Mirror of the Year" an Article upon the important invention of the Phonograph, and desire to embellish the same with your portrait and a drawing of the Phonograph itself. If you have any wood-cut, electrotype or cliché of your portrait and the invention, will you not favor us with the same for the use indicated? We send, annually, a large number of our Almanac to Germany and it would form an especially interesting part for our readers on the other side of the ocean.

Please favor us with a kind answer at your earliest convenience

and oblige Yours
Very Respectfully
F. Lisiewski & Co.
per Dr. C. Curtius, Editor.

THE FREDONIAN

Newspaper, Book & Job Printing Office,

No. 36 DENNIS-STREET,

NEW-BRUNSWICK, N. J.

THE NEW-BRUNSWICK WEEKLY FREDONIAN

Is one of the oldest and largest papers in the State, and the oldest and largest in Middlesex County, in which it has a large circulation, as well as in adjoining counties. Republican in Politics. Reading-matter on each page. The Weekly Fredonian was established April, 1811. Terms, Two Dollars a year in advance.

THE DAILY FREDONIAN

Is a four page sheet, eight columns upon each page. It has a large circulation in the City of New-Brunswick, and surrounding towns. The Daily Fredonian was established January, 1855. Terms, Six Dollars a year in advance, or Twelve and-a-half cents a week.

ADVERTISEMENTS INSERTED IN BOTH PAPERS AT LIBERAL RATES.

Population of Middlesex County, 50,000; of the City of New-Brunswick, 22,000.

BOOK AND JOB PRINTING

Of every description neatly and promptly executed on the most reasonable terms. Four Steam Presses in use. All orders, by mail or otherwise, promptly attended to.

BABCOCK & JOHNSON,
EDITORS AND PROPRIETORS.

JOHN F. BABCOCK, S. L. JOHNSON, *Editors and Proprietors.* } **Daily & Weekly Fredonian Office,**

New-Brunswick, N. J. May 25 1878

Mr Edison;

My Dr Sir,

The pleasure of an interview with you has been made by Mr Dilks an Telegraph Operator, but has failed of its accomplishment, through a pressing engagement over upon your part and over upon mine.

The deferred pleasure I yet hope to enjoy; in the mean time permit me to introduce to you Mr Edward A. Reilly of our College Grammar School, who takes a deep interest in such matters

and who is desirous
of being your and your
Laboratory. In this
matter Mr Neil will
represent us, and any
attention you may
be able to favor
him with, will be
duly ~~and~~ appreciated
by yours
Very Respectfully
[illegible]

THE ELECTRICIAN,

190, STRAND, W.C.

25 May 1878

T. A. Edison Esq

My dear Sir

Our attempt so far as the first number of the Electrician is concerned is now a fact. I daresay you will receive a copy by the same post as this. I am sorry the printing etc. seems below the mark - but have no doubt that the experience of a few nos will assist the printers in turning out good work. I think the paper will commence daily to you. I want it to be perfectly Cosmopolitan - to notice everything I can get a hint about in the electrical world. Thus I must ask forgiveness in imposing upon your valuable time. Any hint - note - or cutting - Any sketch - drawing or photograph - will be gladly received from you.

Yours faithfully

C. H. W. Biggs

T. A. Edison Esq

MAY 25, 1878.

THOS. A. EDISON, ESQ.

MENLO PARK,

N. J.

YOUR ESTEEMED FAVOR OF THE 23-RD INST. IS AT HAND AND REQUEST FOR FIVE TRIBUNES OF THE 3-RD OF APRIL IS NOTED.

I PRESUME YOU MEAN THE 8-TH OF APRIL AND HAVE ACCORDINGLY SENT YOU FIVE OF THESE WHICH WILL PROBABLY REACH YOU IN THIS MAIL.

YOUR OTHER LETTER ASKING FOR PAPERS WAS RECD. BUT THE EDITION WAS EXHAUSTED AND I COULD OBTAIN NONE.

RESPECTFULLY,

Geo H Niles.

GEN'L MAN.

T. A. EDISON,

Menlo Park, N. J., May 25 187

From New York.

To T. A. Edison

If you are to be home tomorrow will send other to see you answer

Sig A. E. Beach.

US.

Recd by Hand

A. E. Beach

Sent by Hand

(May 28)

New York

T. A. Edison -

my assistant goes on eleven o'clock train sig

A. E. Beach.

A. E. Beach

The Scientific American.

MUNN & CO., Editors and Proprietors.

O. D. MUNN.
A. E. BEACH.

New York, May 28 1878

My dear Mr Editor

Mr Hopkins who will present this is one of our esteemed writers and artists; he will be able to describe and illustrate such ideas as you think likely to interest our readers.

Yours Sciam & Sup

now in press, cont. Prof Hayes
Comm. to Royal Society ect.
In due time I hope you will
show up your priority in such
a manner as to compel
the filing of a disclaimer
by Prof H.

Faithfully yrs
A G Bennett

Prof T. A. Edison

Mis

216 E 52-st
June 5/78

Mr Emerson

Dear Sir will you kindly give me the particulars of your saving the life of a child Mr Burbeck has started for Paris I will not see Marr. for a month or so — the points I want are there, your age at the time, the reason — age and sex of child or any thing which will add to the value of the sketch — also if you could give me a plan of your [illegible] with a steam mantle — I endose a photo — of my last sketch the original is in the possession of Ferguson the Auction, ~~as a~~ which I send as a slight memento of my

very pleasant meet to
you. your portrait I
will leave with Gardi-
ner - as I do not wish
to trust it with the
mail. hoping you
and Mr Bachelor are
well I remain

Yours truly

J E Kelly

T. A. Edison Esq
Menlo Park

Office of D. B. DAVIS & BRO.,

Dry Goods, Groceries, and Crockery,

D. B. DAVIS.
CHAS. H. DAVIS.

Whitney's Point, N. Y. June 5, 1878

Friend Edison:

I send you a copy of the Cortland Standard a widely circulated journal in which I am printing a series of articles on your career. I have drawn largely on Bliss' Chic. article but shall wind up with something entirely different. Should like to be able to put in a complete list of your inventions to date. Send it to me if you can, at once. I shall do well for you & puff — or rather tell what I know to be commendatory. Complimentary etc. If you would like the concluding numbers of articles please advise.

Very truly yours
Charles H. Davis.

Thos A. Edison Esq
Electrician

(Item 16)

Washington D C

Prof T A Edison

Cant find any June eighth scientific American here yet when did it come out

U. H. Painter

Last Thursday

Edison

14 d.H.

Phila June 7/78

Dear Sir:

I wanted say in reply to yours of this date to Prest Bancroft that I have ordered electric types of the Cuts asked for & they will be forwarded to you tomorrow —

Would like a copy of the pamphlet when published

Very Truly

S M Rush

George B. Prescott
Electrician

Electrician's Office
Western Union Telegraph Company
New York, June 18 1878

My dear Edison,

I have found the original wood cuts of your pressure relay, which was published in the Journal June 1. 1877, and you can have it for making electrotypes of it if you wish.

Yours truly
Geo. B. Prescott

George B. Prescott
Electrician

Electrician's Office
Western Union Telegraph Company
New York, June 20 1878

My dear Edison

I will furnish them to you at two dollars each.

Yours truly
Geo. B. Prescott

Send them on by freight

SCRIBNER'S MONTHLY. ST. NICHOLAS. } SCRIBNER & CO., 743 BROADWAY, N. Y. June 1 1878.

Will you be at home (in Menlo Park) Tuesday morning? If so Mr. Kelly (artist) and I will take the liberty of calling. Please write or telegraph to Mr. Kelly 316 - E. 52nd St. N.Y.

R.W. Gilder Tuesd 2d Jun 5

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

The rates of this Company require that all messages received for transmission, shall be written on the message blanks of the Company, and are subject to the conditions printed thereon, which conditions have been agreed to by the sender of the following message.

WILLIAM ORTON, Pres't. } NEW YORK,
H. BREWER, Sec'y.

Dated New York, June 26th 1878

Received at

To T. A. Edison

Card from Pauce and Hughes if today acceptes a letter from you impatiently necessary, Can you send it soon, will send out Reporter if necessary

Whitelaw Reid

T. A. EDISON.

Menlo Park, N. J., June 26 1878

To the Editor of the Tribune

In reply to the Card of Messrs Preece & Hughes regarding the Utility & Piracy of My Carbon Telephone as Contained in your paper of this date, Allow me to refute their statements by their own words extracted from Cudley's the English scientific papers

~~Mr Hughes has not brought out any Thermofaeli. Preece~~

I emphatically endorse every word of the above message

D E Hughes

T. A. EDISON.

(2) T

Menlo Park, N. J., 187

I quote from the London Eng man of

I quote from ~~an article~~ on the Phonograph in the Washington Star of April 19th 1878 "My Carbon Telephone may be used as a heat measurer: It will detect the fifty thousandth of a degree Fah" etc"

This was mailed to W H Preece April 20th To prove that he received it I quote from the ~~the~~ same article

"The phonograph will preserve the exact pronunciation

T. A. EDISON.

(3)

Menlo Park, N. J., 187

The President of the Philological Society means to travel with it among all of the North American tribes"

I now quote from a letter delivered by W. H. Preece before the Society of Arts May 10th 1878, on the phonograph and published in their Journal page 537.

"The Phonograph will preserve the exact pronunciation and the President of the philological Society means to travel with it amongst all the North American tribes"

T. A. EDISON.

Menlo Park, N. J., 187

(4)

to set at rest the claims of Mr Hughes on this subject I quote from a letter recd by me a short time since from Prof Langley the Eminent Astronomer

Allegheny Observatory June 4 1878

Dear Sir

In response to your inquiry of June 1st I may state that to the best of my recollection in October 1877 at your laboratory in Menlo Park on my telling you that an instrument more sensitive to radiant heat than the bismuth-antimony linear pile was desired by me for certain researches in the spectrum; you suggested the use of Carbon, of which you were showing Prof Barker and myself specimens, as well as I remember the idea you gave me was that

T. A. EDISON.

Menlo Park, N. J., 187

While the common small thermopile was capable of developing little energy, the variation of resistance of the carbon under the influence of pressure or traction from a small heated adjacent body might be made to control the energy of a battery of any size and thus multiply the sensitiveness of the pile almost without limit."

T. A. EDISON.

Menlo Park, N. J., 187

"This microphone is quite a different instrument to Edisons Telephone."

Hughes in his article after summing up the labors of others says:- "It will be seen however that in the experiments made by myself the diaphragm has been altogether discarded resting as it does upon the changes produced by molecular action and that the variation in the strengths of the currents flowing are produced simply and solely by the direct effect of the sonorous vibrations

T. A. EDISON,

1

Menlo Park, N. J., 187

I copy from "the Journal of the Telegraph" of April 16th 1878 of which paper Mr Preece is a subscriber, an article taken from Mr Geo B Prescott's book on the telephone, which reads as follows;

"In the latest form of transmitter which Mr Edison has introduced, the vibrating diaphragm is done away with altogether" Also from the same work (page 226) "I (Edison) discovered that my principle, unlike all other acoustical devices for transmission of speech did not require any vibration of the diaphragm that in fact sound waves could be transformed into electrical pulsations without the movement of any intervening mechanism"

Again Mr Hughes in his paper after giving

T. A. EDISON.

1

2

Menlo Park, N. J., 187

a number of experiments sums up and says; "Carbon is used in preference to any other material xxxxx It is quite evident that these effects are due to a difference of pressure at the different points of contact and that they are dependent for the perfection of action upon the number of these points of contact".

I quote from the Journal of the Telegraph of April 16th 1878 "By constant experimenting however Mr Edison at length made the discovery that when properly prepared, Carbon possessed the remarkable property of changing its resistance with pressure, and that the ratios of these changes moreover corresponded exactly with the pressure."

T. A. EDISON.

3

Menlo Park, N. J., 187

This same discovery was announced in the Scientific American July 17 1877 - I quote ~~extracts~~ from a letter from Sir Wm Thomson addressed to Sir Henry Thompson ~~&~~ a copy of which I have just received

Hotel Chatham
Paris June 7 78

My Dear Sir Henry

× × × × It is certain that at the meeting of the British Association at Plymouth last September a method of magnifying sound in the electric telephone was described as having been invented by Edison, which was identical in principle and in some details with that now brought forward by Hughes.

T. A. EDISON.

4

Menlo Park, N. J., 187

(Signed) Sir William Thomson

It was Mr Preece himself who made this statement before the Association.

Further I quote from a letter from Preece to me dated London May 23d

"Hughes doings borders very closely upon yours and it is difficult to distinguish between what you have done and what he has done."

Finding Mr Preece had my telephones in his possession nearly two months before the paper of Mr Hughes was read before the Society, and it is almost impossible to attribute his failure

T. A. EDISON.

Menlo Park, N. J., 187

to defend me against the piracy of Hughes to his not understanding so simple an instrument. + the principle involved therein.

T. A. EDISON.

Menlo Park, N. J., 187

Mr Preece says; I am in no way whatever a coadjutor of Hughes.

I quote from Mr Hughes original paper "My warmest thanks are due to Mr W H Preece Electrician of the post office for his appreciation of the importance of the facts I have stated and for his kind Counsel and aid in the preparation of this paper". Finally you say in your editorial Columns "so far as we know Prof Hughes is a scientist of unquestionable reputation. I quote Mr Geo B Prescott Electrician of the W.U. Telegraph Co"

T. A. EDISON.

(1878)

Menlo Park, N. J., 1 Thermo 187

To the Editor of the Tribune

In reply to the ~~claims~~ Card of Messrs Preece & Hughes regarding their piracy of the my Carbon Telephone as contained in your paper of the 26. Allow me to refute their statements by their own words, and by the English scientific papers,

"Hughes has not brought out any Thermopile." Preece.

I emphatically endorse every word of the above concerning Dr Hughes.

T. A. EDISON,

Menlo Park, N. J., 2 Therm 187

In the London. — It is stated ~~that the same~~

I'm ~~quote~~ quote from Washington Star of April 19. "My Carbon Telephone may be used as a heat measurer; it will detect the fifty thousandth of a degree Fahr. etc. This was mailed to W. H. Preece, April 20th. To prove that he received it I quote from the Star " ~~I saw the vice president of the Amer~~

T. A. EDISON,

Menlo Park, N. J., 187

3 Phono

I quote from a lecture delivered by Wm Preece before the Society of Arts May 10 1878. & published in their journal page 537.

The Phonograph will preserve the exact pronunciation, and the precedent of the philological Society means to travel with it amongst all the North American tribes"

T. A. EDISON,

4

Menlo Park, N. J., 187

To set at rest the claims of Mr Hughes on this subject. I quote from a letter from Prof Langley the eminent astronomer Allegheny Observatory. ~~dated~~ June 4 1878

"Dear Sir. In response to your enquiry of June 4 I may state that to the best of my recollection, in October 1877 at your laboratory in Menlo Park, on my telling you that an instrument more sensitive to radiant heat than the bisulphide-ammonia linear pile was desired by me for certain researches in the Spectrum; you suggested the use of Carbon, of which you were showing Prof Barker & myself specimens, as well as I remember the idea you gave me was that while the common small thermopile was capable of developing little energy, the variation of resistance

T. A. EDISON,

5

Menlo Park, N. J., 187

of the Carbon, under the influence of pressure or traction, from a small heated adjacent body, might be made to control the Energy of a battery of any size & thus multiply the resistance of the pile almost without limit" ~~etc etc~~.

"This Microphone is quite a different instrument to Edisons Telephone".

~~Prescott~~ Hughes in his article after summing up the labors of others says:-

It will be seen however that with experiments made by myself the diaphragm has been altogether discarded, resting as it does upon the changes produced by molecular action, and that the variation in the strength of the current flowing are produced purely & solely by the direct effect of the sonorous vibrations

T. A. EDISON.

2

Menlo Park, N. J., 187

I copy from the Journal of the Telegraph of April 16 1878 to which the Prescott is a subscriber. (and article taken from Geo B Prescott's book on the Telephone.)

"In the latest form of transmitter which Mr Edison has introduced the vibrating diaphragm is done away with altogether,"

from Mr Prescott work I quote from page 226. "I discovered that my principle, and the all other acoustical devices for transmission of speech did not require any vibration of the diaphragm that in fact sound waves could be transformed into electrical pulsations without the movement of any intervening mechanism

Again Mr Hughes in his paper ~~copy~~ after giving a number of experimental sums says and says:- Carbon is used in preference to any other material * * * It is quite evident that these effects are due to a diffusion of pressure at the different

Menlo Park, N. J., 187

points of Contact, and that they are dependent for the perfection of action upon the number of these points of Contact,

I quote from the Journal of the Telegraph of April 16.

"By constant experimenting however Mr Edison at length made the discovery that when properly prepared, Carbon possessed the remarkable property of changing its resistance with pressure, and that the ratio of these changes moreover corresponded (roughly) with the pressure,"

This same discovery was announced in the Scientific American July 17. 1877. ~~and may be found~~. I quote from a letter from Sir Wm Thomson addressed to Sir Henry Thompson of copy of which I have just received "Paris June 7. Chalmers

My Dear Sir Henry

* * * *

Menlo Park, N. J., 187

3

"It is claim that at the meeting of the British Association in Plymouth last September, a method of magnifying sound in the Electric telephone was described as having been invented by Edison, which was identical in principle and in some details with that now brought forward by Hughes (signed) Sir William Thomson

It was Mr W. H. Preece himself who made this statement before the Association.

Further I quote from a letter from Preece to me dated London May 23rd.

"Hughes sounds border very closely upon yours and it is difficult to distinguish between what you have done & what he has done,"

finally Mr Preece, had my telephones ~~of~~ ~~[illegible]~~ in his possession ~~[illegible]~~ ~~[illegible]~~ ~~[illegible]~~ before the ~~[illegible]~~ paper of Mr Hughes was read before the society. And it is almost impossible to attribute his ~~[illegible]~~ ~~[illegible]~~ defending me against the piracy of Hughes to ~~[illegible]~~ his not understanding so simple an instrument

Mr Preece says:—

"I am in no way whatever a Coadjutor of Hughes.

I quote, from Mr Hughes original paper:

"My warmest thanks are due to Mr W. H. Preece Electrician of the Post Office for his appreciation of the importance of the facts I have stated, and for his kind counsel and aid in preparation of this paper;

Finally ~~you~~ you say in your Editorial Column:"

So far as we know Prof Hughes is a scientist of unquestionable reputation I quote Mr Geo B Prescott Electrician of the Well Telegraph —

T. A. EDISON,

Menlo Park, N.J., June 28 1878

Ann News Co NY

Can you send me two hundred Heralds of todays date by Express COD answer my Expense

SDH T. A. Edison

T. A. EDISON,

Telegram Menlo Park, N. J., June 29th 1878

Mr S. N. Hopkins
Scientific American
New York

Can you come down today for another load

T. A. Edison

SDH pw

Phila 6/29/78

Brother Edison

I send you today 2 of 3 copies of the Times with some remarks on you "talk" with the Times reporter the other day — I enclose with this "a card" from Brother Edward or Edwin Rollins. It would seem that the "old man" is mad. I hope you will study hard and be right down industrious for a few years now to come — so you become "worthy of a reply" before you die. Yours in the truth. Henry Bentley

from Washington D.C

To Prof T. A. Edison

I sent today two hundred slips with
Galvanos articles in it is impossible to get any
number of slips of nineteenth april. I cleaned
up the slip office and every other place
for you in april I will advertise for
copies and offer facts for them and
may get a few that may do you get yesterday
needed last night

Sig U. H. Painter

Answer

We require 4 or 5 slips of nineteenth
of April

Sig. T. A. Edison.

T. A. EDISON.

Menlo Park, N. J., 187

U S Painter
Washn D C

Yes rec'd Stars of June ~~[illegible]~~ fifth thanks — Those you have sent of April twenty sixth will suffice need not get any more

[redacted] Edison

22 D H

The Alliance.

Prof. David Swing, Editor.
B. F. Mellbach, Associate Editor.
F. T. Browne, Managing Editor.

95 CLARK STREET,

Chicago. July 2 1878

Prof. Edison

Dear Sir:-

Can we secure you to write an article for us on the history of the phonograph & megaphone?.

We should like it for Free publication and would pay liberally.

Yours Truly

Henry L. Shepard

Manager.

Edison

If you say "yes"
I'll take the fifty

E.H.

They ought to
pay well for
anything from
you

E.H.

N° 2.

TÉLÉPHONE-BELL
B. S. G. D. G.

CORNÉLIUS ROOSEVELT

SEUL CONCESSIONNAIRE
POUR LA FRANCE

4, Rue de la Bourse

Paris, le 3 July 1878.

My dear Mr Edison

As you will know from Mr Puskas & my brother I am interested in your various discoveries here in Europe the letter of Mr Modet, who is a gentleman in whom we all place implicite confidence is written you in the hope of obtaining from you any published matter concerning new things and any information you may be fit to give him. His new idea he does not claim for himself but we have applied for a patent here in order to prevent others from preventing us from using it. We propose sending you the drawings for your own use in America. In regard to the Microphone I send you a very important letter from

Mr Hughes sent to a Society journal the "Commercial Scientific" edited by Chas. Varey. We shall reply to it briefly at the same time begging the public to suspend judgement until we can print your reply which I hope you will send us immediately

Yours truly
Cornelius Roosevelt

(Oct. 1878)

[ENCLOSURE]

July 2d 1878

Mr Thomas A. Edison

Menlo Park N. J.

Sir

I beg to say that I have written a book on Telephones and Phonographs in which I have done my best to mention precisely and correctly what the principal inventors have made.

I have not been unfortunately very well inform of your previous experiments, but you may depend upon that if I do not give you the place you deserve it is by want of knowledge not by bad will.

My book will be issued within some days and I will give me the pleasure to send you one of the first copies that I will get from the printer.

My intention is to keep the book opened, so to say, that is — I will writ an appendix and will have printed it and added to the unsold copies as soon as I will find that additions are desirable.

Consequently I shall feel very much obliged if you keep me informed of any thing new published or patented by you.

[ENCLOSURE]

(July 2 1878)

I beg also to say that I have made some experiments rather satisfactory in the way of a telephonic Relay.

I propose to increase the volume of sound received in a Bell telephone acted upon by a transmitter Bell or other telephone.

The receiver I consider as a relay and I combine with it a microphonic arrangement, that is to say a system of carbon like that one in your telephone or like those proposed by Hughes; that system is put in a circuit with a battery and a third Bell telephone, in which musical or articulate sounds are reproduced and increased from the Relay.

You will understand, from my writing to you that it is not at all my intention to work against you; on the contrary I very much wish to work in good accordance with you. I fully agree with you that Mr Hughes has been cultivating a field which you have first discovered, and I will not follow my experiments (unpublished) if you think it would be against your interest.

I have told M. Pushkas precisely what I write to you here; and as a friend of M. Roosevelt and an engineer of the firm of Breguet I beg to repeat that nothing will be made against your interest.

[ENCLOSURE]

I remain, Sir,
your very faithfully
Alf. Meaudet
6. Rue de Seine
Paris.

P.S. Allow me to say that M. Preece is an old friend of mine and that I believe it is only through some misunderstanding that you complain against him.

Preece is always ready to lecture on any thing new and he is one of the best lecturers in England; but he is in no way a coadjutor of Hughes as you believe.

Excuse my talking so freely to you and believe me

yours sincerely
Alf Meaudet

July 16/76
Receipt acknowledged and
Post Office Boston Journal
Pa Amer June 22?
Pa Am July 13th
Authors article All Journal
N.Y. Herald June 22nd
N.Y. Tribune June 27th
Lowell 2d July 9th
Springfield Re June 17th
Pressure Cabs
+ plead reason list of pressure
Ins Graphic. Sydney July 17th 76

New York 4 (July 4)
T A Edison

Why did you ~~this~~ break your Engagement with me. Please telegraph where I can meet you Friday without fail

D. V. Lynch

World off

Newark N.J. July 8.78

Dear Sir

I send you the inserts which I need to wind with your portrait on the first page and a history of your life & explorations

Yours truly
Geo Bruce

61 Jackson St

D. V. Lynch
World office NY

N.P. July 4.78

I sent you a telegram yesterday to meet me at Western Union building and waited there over half an hour – Will be at Penn Depot by the 11 25 am tomorrow

T. A. Edison

THE DAILY GRAPHIC $10.00 PER YEAR.

THE GRAPHIC COMPANY,

HEARTH AND HOME $5.00 PER YEAR.

New York. July 8. 1878

Dear Mr. Edison:

The bearer, Mr. Dobbins, is a reporter of the Graphic. Please tell him whatever you consistently can, if there is anything new.

Please me

Yours truly

W. A. Croffutt.

T. A. EDISON.

Menlo Park, N. J. July 8th 1878

Editor Chemical News:

Allow me to state that the Telephonic regulator described by Messrs Houston & Thomson in your issue of June 21 was invented by me over a year ago and one of the many forms devised by me was published in the "Journal of the Telegraph" July 15 1877. and the Telegraphic Journal of London about the same time,

Yr

T A Edison

Ans'd July 11, 98

J. E. Kelly
3/6 £58 20

July 3rd
98

Mr Edison

Dear Sir I have been commissioned by Gardner. If agreable to you to make a drawing of your head from life as it will take an hour or so. there is a great deal to ask of your valuable time but as they desire to make the article as complete as possible. as it will affect so much attention both here and abroad as it is published in England I hope you will oblige
make the sacrifice

I call out your way
any day ~~[illegible]~~ next
week Sunday included
saturday excepted if
the proposition is
favorable. I sent a
note to Mr Belolator
for his profile &c
last Wednesday please
ask him if he received it as I have
received no ~~reply~~
hoping you and Mr B
are well I remain
yours truly

J E Kelly

Copy

(July 15, 1878)

To the Editor of the Scientific American

Sir:

In the Scientific American of June 29th we stated that if Prof. Hughes had filled the glass tube with common shot he could have received as well as transmitted articulate sentences, since by such and similar arrangements we had repeatedly received without the use of a magnet or diaphragm.

We also said in substance that Mr. Edison had not discovered any new property as connected with the conductivity of the element carbon because all the phenomena he describes could be explained by surface contact. Mr. Edison replies in your issue of yesterday that if we had seen carefully what he had said we should have saved ourselves the trouble of writing to you.

We are obliged, therefore, to ask:

1st. When and where have you published the facts, before us, that neither a magnet or diaphragm is used in the receiving instrument

telephone?

2nd In what paper have you explained your so called "carbon telephone" and other devices upon surface contact alone?

As to the charge of piracy attributed to Professor Hughes we know nothing but it does seem as if the public should be spared the humiliation of scientific gentlemen calling such other based names.

signed William H. Pitt
" H. H. Draper

Central School Laboratory
Buffalo, N.Y., July 15 1878

Mr Edison please reply
and oblige
mpb

OFFICE OF

The Daily and Weekly Globe,

238 WASHINGTON ST.

Boston, ... 187

Dear Tom:

I know you are bothered to death, & I therefore make my note short. Can't you send me all the spare literary rubbish that you have received & I will try & get up an original story —

Ever yours,

Tom magine.

P.S.

I am an assistant editor in this shed now. How are you? Eh? T. M

ans 9 July 77 CK

[INCOMPLETE]

OFFICE OF

The Daily and Weekly Globe,

238 WASHINGTON ST.

Boston, July 20 1878

Dear Tom:

I wrote you a letter the other day, to Mesrs Park, and Mr Griffin informed me of your address, and hence I spread another three cent stamp on you. It has occurred to me that you must have several tons of literary matter lying in the way of letters, &c., which are of no use to you, and an abstract of which would furnish a column or two of Edison matter outside of the state articles of the last few weeks. What I would aim at is to render the story humorous at the expense of the writers, but without disclosing their names. What do you think of the idea? If you can steal a few brief

[INCOMPLETE]

OFFICE OF

The Daily and Weekly Globe,

238 WASHINGTON ST.

Boston, ... 187

moments from the scientific
duffers who surround you
please drop me a line; or, if
you have not the time, get a
Secretary at it.

I have been in N. Y. several
times since you became famous
by your infamous inventions,
and would have gone over to
see you only I felt that you
was bored to death by callers.
If the time ever comes when
you are at leisure I will call
around.

But let me hear from you
any way, & if you think well
of the idea I will call on you
when you get back in September.
I assume you what I get up

Cinquième Année.

MONITEUR INDUSTRIEL BELGE

SCIENTIFIQUE, COMMERCIAL, FINANCIER.

(Médaille à l'Exposition de Philadelphie.)
Médaille à l'Exposition Universelle de Paris 1878.

PARIS, 55, Rue de Turbigo. | BRUXELLES, 46, Boul^d Central.

JULES MEEUS, ADMINISTRATEUR-GÉRANT

Londres
25, Lawfort-Road. N. W.

Leipzig
13, Gohlis Lindenstrasse.

Berlin
172, Alte Jacobstrasse.

Saint-Pétersbourg
24, Rue des Officiers.

Lisbonne
46, Rue du Alecrim.

Milan
9, Vià Lupetta.

Rome
68, Vià Babuin.

Madrid
9, Reina, principal

Rotterdam
74, Haringvliet Z. Z.

New-York
83, Rued street.

Philadelphie
110, South, Fourth street.

Buenos-Ayres
11, Del Calle San Martino

PRIX DE L'ABONNEMENT, payable on souscrivant:

Belgique, 22 fr.; Grand-Duché de Luxembourg, France, Algérie, Angleterre, Allemagne, Autriche, Pays-Bas, Suisse et Italie, 30 fr.; Espagne, Portugal, Suède, Norwège, Russie, 36 fr.; Turquie, Principautés Danubiennes et Grèce, 32 fr.; Egypte et Etats-Unis, 45 fr.; Amérique du Sud, Chili, Brésil, République Argentine, Chine, Japon, Haïti et Australie, 42 fr.

Annonces Financières et Industrielles.

(Prix par centimètre de hauteur, mesuré dans la colonne d'annonces:)

Par insertion, 32 fr.; par trimestre, 12 fr.; par semestre, 22 fr.; par an, 40 fr.

Annonces Financières: la ligne, 1 fr. 20. | Adjudications: la ligne, 1 fr.

Paiement comptant.

Bruxelles le 25. July 1878.

Thomas Alva Edison Esq.
New York

The News Paper's and Blocks You had the kindness to send well to hand.

We should be very glad to publish in our paper description and illustration of a Your „Rhéostat" and have the liberty to ask if You would have the kindness to send, Autotype Block.

The description and illustration of a Your Micro-Tasimetre shall be published in our next number, we shall have the pleasure to send some copies.

Yours Truly
The Administrateur-Gérant
Alb. Lemaig.

Rocky Mountain News Co.

Rocky Mountain News Printing Co.

EDITORIAL DEPARTMENT.

WM. R. VICKERS, Editor.
JAS. T. PETIS.

Denver, Col. July 27 1878.

Prof. Edison

Dr Sir:

We would like a report of your observations on Monday for publication the following day, and will be very glad to have you transmit by telegraph (at our expense) so early Monday evening as convenient, such facts as will be of general interest, you to be the judge of the matter. In the event you cannot comply, perhaps some member of your party will undertake to do it. Please answer this by telegraph. Very respectfully

R. W. Muldoon.

C. D.

Ans'd Aug 28 75

Le Monde de la Science et de l'Industrie

FAUBOURG
5 & 5, Grande Fontaine, 5 & 5

PARIS
51, rue de Lille, 51

AD. BOGEN
ADMINISTRATEUR

Ans'd Aug 16 75

Faubourg St. Denis 1875

Dear Sir,

Being an admirer of your great genius and enthusiastic of the marvellous inventions which have rendered your name immortal, I am happy to be able to tell it you. I have had lately the pleasure to forward you a number of my journal which I will be honoured to send you regularly. You will read in it many a miracles for you.

If ever you would honour me with a communication for this paper, which is now spread all over France, Switzerland & Belgium, I should feel greatly honoured and obliged by it. Other english papers have already said a few words of your aeroplane

Yr.

of your megaphone, of which I found yet no notice in the Scientific American. Would you let me know real facts about them?

As for your phonograph, the marvel of marvels, I know that you are improving of every day. I hope — or rather I am certain — you will succeed to make of the instrument you predicted in the Telegraphic Journal.

I have had last week a phonograph experimented before me by a gentleman* who told me that he had your second apparatus. The operator was not very skillful, then his exhibition was more a left a failure. He was obliged to shout in the mouthpiece, and the sound was only faintly and inconnectly reproduced... I enclose a

* Wandling - Letter

view of tin foil which was indented in this occasion.

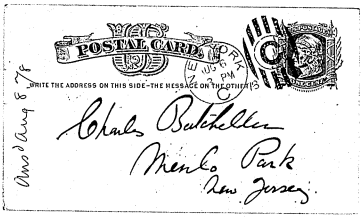
I have no doubt you have succeeded to make a much improved instrument, — your splendid success with Levy is a proof of it. Would you kindly let me know something about your new phonograph?

Hoping that I will be honoured by an answer from you I remain, dear sir,

Sincerely Yours

A. Lyon

Monsieur Th. A. Edison Esq.
Menlo-Park New Jersey


POSTAL CARD
WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER
Chas Batchelder
Menlo Park
New Jersey

Can I see the photographs now? I would like to make a quite selection in early number. We go to press May 10 and I would like to come out soon.

A postcard from you will confirm a fixture as

Yours —

Charles Barnard

Geo. W. Sickner's Institute
74 & Bleecker St. New York

HALL OF THE FRANKLIN INSTITUTE.

Philadelphia, Aug 15th 1878

Mr. T. A. Edison
Menlo Park N.J.

Dear Sir

Can you furnish us with Electric of the ~~illustration~~ of your "Micro-Tasimeter" for use in the Journal of the Franklin Institute?

Yours Truly
J. B. Knight
Sec'y.

Sent Cuts by Ex Aug 17 '78

HALL OF THE FRANKLIN INSTITUTE.

Philadelphia, Aug 14th 1878

Mr. S. L. Griffin
care Mr. T. A. Edison
Menlo Park, N.J.

Dear Sir

I am in receipt of your esteemed favor of the 16th inst & also of the Micro-Tasimeter Cuts for which accept thanks.

I will take care that the cuts are returned to you as soon as we have used them

Yours Truly
J. B. Knight
Sec'y.

T. A. EDISON. 11 55 am

No 1

Menlo Park, N. J., Aug 26 187

New York 26
Mr C E Batchelor
Care T A Edison
Has Mr Edison returned
home

D. V. Lynch
The World

7 paid
ar 9

T. A. EDISON. 7 01

Menlo Park, N. J., Aug 26 187

D V Lynch The World New York

Yes arrived this Morning

S L Griffin

A T Collect

12 9 ar

Orig K Hollo

Ans'd Sept 22 78

Editorial Office of
The Columbia Spectator,
COLUMBIA COLLEGE.

F. W. Hollis, '78, *Editor in Chief.*
J. Fischer, Jr. '81, *Managing Editor.*
W. F. Morgan, '80, *Treasurer.*

Mount Vernon,
New York, } Sept. 21. 1878.

Prof. Thomas A. Edison
Menlo Park
N.J.

Sir!

The editors of the "Columbia Spectator", the official college paper of Columbia College have selected the undersigned, to take the liberty, with your kind permission, of visiting you at your laboratory, and of reporting on the visit in our paper.

I hereath respectfully ask for this permission, as well

as for the designation of any day of the week next week probably, when a visit will be least inconvenient to you. If possible, please to add the directions necessary to find your home from the Depot.

Hoping that you will not refuse the request of one who is aware of the trust which awaits him, and who hopes not to undergrade your genius in print, I am

with the highest esteem.

Very truly your
obedient servant

Frederick H. Hollo,
Mount Vernon
N. H.

Editorial Rooms
of Scribner's Monthly,
743 Broadway,
New York.

Sept. 4:1876

Dear King

Enclosed please find proof of Mr. Bishop's article. Will you decide whether Prof. Barker should edit it

1 – correct it and add here & there

or

2 – Make ~~slight~~ suggestions (?) Corrections (?) (sometimes that is wrong) and add a supplement – which can go on his own name or as editorial – of a page or so – as brief as possible.

It may be that you yourself can make it all right – if not

please forward (as you suggested to me) to the Philadelphia Professor, or any one else you deem competent — our Mr. Barnard, for instance.

Whatever charges they Bankor ~~Boston~~ may make, we shall be glad to meet.

We are in great haste.

Yours truly

R. W. Gilder

Cent. Ed.

Richard Watson Gilder

My regards to Mr. Edison. Something major Chandler about his chances to the Paris exposition

[TRANSLATION FOLLOWS]

Redaction der „Deutschen Revue".

(Sept. 6. 78)

Hochgeehrtester Herr

Gestatten Sie mir Ihnen zuerst meine höchste Verehrung für Ihre genialen Erfindungen auszudrücken

Zur größten Ehre und Freude würde es mir gereichen wenn Sie, hochgeehrter Herr, geneigt wären in der deutschen Revue an der nur hervorragende

[TRANSLATION FOLLOWS]

Gelehrte und Schriftsteller
wie Pettenkofer, Wöhler
du Bois-Reymond, Zeh, P. Heyse
Auerbach, Geibel u. a. mit einem
„Erinnerungen aus ihrem Leben"
in Form einer Abhandlung
veröffentlichen müßten, oder
wenn Sie Ihre Erfindungen
näher schild'rn oder neue
Versuche in allgemein verständlicher
Weise beschreiben möchten

Es würde für Deutschland ein
hohes Interesse haben, wenn
Sie, hochgeehrter Herr, meinem
Wunsche gütigst willfahren
und das deutsche Publikum
mit Ihren großen Erfindungen
selbst durch eine Abhandlung
näher ~~vertraut~~ machen würden.
Jeder Beitrag von Ihnen
hochgeehrter Herr wird wir
für die deutsche Revue die

[TRANSLATION FOLLOWS]

Sept 6. 78

Richard Fleischer
chief editor German Review
Berlin Germany

Sent papers as
requested
Oct 17th 1878

Ihr Einverstanden und sehr
verbunden ich, hab ich Ihnen
die Übersetzung wird die
Redaktion übernehmen.
Indem ich dem Ihre geehrte
Gültige Mitheilung hiemit
bitte bin ich

Berlin
d. 16 Sept

Mit höchsten Verehrung
Ihr ganz ergebenster

Chef-Redakteur der Deutschen Revue
Richard Fleischer

[TRANSLATION]

T. A. EDISON. Berlin Apl 6th 1888

Menlo Park, N. J., _____ 187

Dear Sir

Allow me to express my highest estimation for your great & invaluable inventions.

I would consider the highest honour if you would be kind enough give me a member of your life the publication of your papers & experiments of your inventions, please explain.

These are only distinguished scientific men writing on the Gem. Review as Pettenkofer, Wöhler, Du Bois Reymond, Hope, Querstedt, Goibet etc.

[TRANSLATION]

It would be a high interest for Germany if you learned Sir would complied my wishes to make your invaluable inventions known by the German people through the Revue.

The Revue have very large circulation.

Any Petition is wellcome.

The translation will be made by the Editor.

I am etc.

yours

Richard Fleischer

Chief Editor.

743 Broadway N.Y. Sept. 7th 1878

Be kind enough to ask Mr. Edison to let me have the proofs back at the earliest possible moment after he has seen Prof. Barker. If any one is coming over from Menlo Park whom he can trust, he might bring them by hand.

Yours truly
Geo. F. Ladd.

POSTAL CARD.

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE

NEW YORK
SEP 7
7 PM

S. L. Griffen Esq
Care of T. A. Edison Esq
Menlo Park. New Jersey.

Salem Mass Sept 9.

Dear Dr Edison Please send me at once copy for the St Louis Vol. All your papers were accepted for publication in full & I hope you will let them all be printed in our vol. - Should any of them require illustrations you will please send the cuts as soon as possible. Yours very truly, [illegible]

T. A. EDISON.

Menlo Park, N. J., Sept 11 1878

G.B.P.

Do you desire that the article as sent should be corrected or that I shall rewrite it —

Yours Truly —
T A Edison

T. A. EDISON.

4 Pm

Menlo Park, N. J., Sept 11 1878

NY 11 T A Edison MP

When will that Elevated report be ready? Dont forget to Notify me I want it Exclusive Have you got anything new Answer

Edwin M Fox
Herald office

4 Paid
Reg

T. A. EDISON.

Menlo Park, N. J., Sept 11 1878

E M Fox Herald office my
All right something new
in few days Edison

S Collect

Pio
Q Va.

Editorial Rooms
of Scribner's Monthly,
743 Broadway,
New York.

Sept. 12 1878.

Mr Edison.
Dear Sir.
The proofs are
at hand. Please accept
our thanks for your revision.
Will you kindly
give us the title of the
cut of the instrument for
measuring the degrees of heat, —
the Thermometer, is it not?
Very truly yours,
Ed S M.

T. A. EDISON. 3 510 Pm

Menlo Park, N. J., Sept 13 1878

Ny 13
T A Edison M Park
Shall you be at home
tomorrow answer unpaid

Ballard Smith
Managing Editor Sun

11 paid

T. A. EDISON. 2

Menlo Park, N. J., Sept 13 1878

Ballard Smith
Managing Editor Sun
New York

Yes will be home
T. A. Edison

5 Collect
y va 510 Pm

George B. Prescott,
Electrician

Electricians Office
Western Union Telegraph Company.
New York, Sept. 13, 1878.

T. A. Edison Esq.

Dear Sir,

Yours of the 11th received. Do just as you think best about correcting or rewriting the article. It ought to be correct in every respect, because when it is published in my book it will go into the hands of every scientist throughout the world. I supposed you would desire to fix the dates of invention, but you can act upon your own judgment in the matter. Take all the time you want to have it perfect in every respect. You had better mention the use of gas carbon pulpins instead of those made from lamp black in your Carbon Telephone.

This is a denial of Hughes pretension.
I want to get the article completed
soon as possible; but I want to get
it exactly right if it takes a
month. You will find it an
excellent time and place
to put yourself right on the
record as to the time when you
made the mountain claimed
by Hughes.

Yours truly
Geo B. Prescott

Mr. Geo. B. Prescott

The World

35 PARK ROW,
Branch Office, 1457 Broadway,
New-York.

Sept. 13

Dear Mr. Edison.

Have you anything new on hand; and if you have, will you be good enough to let me know? I want to keep up with you from day to day in all matters in which you are interested.

Faithfully
D. V. Lepoole

T. A. EDISON.

310

Menlo Park, N. J., Sept 14 1878

Sept 14 T A Edison Menlo Park

Am ordered to Connecticut until next Thursday If anything of importance developes in laboratory in meantime telegraph me to Herald office and if I am not in town another representative will be sent to see you Keep anything Good Exclusive for the Herald and also dont forget about the Elevated report

C. M. Foy

57 Paid
via G

Herald office Sept 14 1878

Friend Edison:

This will introduce to you Mr. David A. Curtis of the New York Herald. Please give him full particulars of your latest invention. You can talk with him as freely as you would to me. I cannot go to the Park myself so I am obliged to be in Connecticut for a short time.

Truly Jno. Edw. Fox

The Sun

New York: Sept 17 1878

My Dear Sir

In our reportorial interview with you touching the electric light you say that you will have your machine in readiness to make a public exhibition within ten days.

May I ask that you will kindly give me notice of the first public exhibition? Your discovery is of such ~~very great~~ a importance, that we will want to give it the earliest and most extensive showing.

I am very truly yours

Ballard Smith

Mr Thos A. Edison

Managing Editor

Athens, O. Sept. 21th 1895.

Prof. T. A. Edison;
Menlo Park N.J.;

Dear Sir;

I am aware that you are in daily receipt of all sorts of boring letters, but may I ask you to devote one moment to this.

I am desirous of writing in popular form and style, an autobiography of myself. I do not doubt that the proposition is more or less distasteful to you, and that you will feel inclined to resent such a proposition. But I beg you to consider that your work has made you name widely known to the public, and that thousands are eager to hear of you and your

achievements more in detail.

I ask but an opportunity to satisfy you that, although a stranger, I possess the necessary literary ability and judgement to produce a work that would be satisfactory both to yourself and the public, and that I am a gentleman and not a literary "dead beat."

Frankly, my main desire is, of course, to make a little money, which I trust I could so do. A journalist of several years experience I have lost a fortune by the pressure of the times and hope in this way to get a little something to keep away the wolf from the door.

In the preparation of the work I should not desire to bore you in the least, nor take up more of your valuable time than was absolutely necessary, but so far as was possible, would gather the material aided only by your suggestions. And I do not desire anything pecuniarily from you whatever.

Trusting that you will not impetuously toss this into the waste basket till you have considered that what I ask will cost you nothing but a little kindness and good will, and that I may have your permission to call and satisfy you as to my fitness for what I propose and that I may have as early a reply as is consistent with circumstances, I am, sir,

Very Rp
Your obt servt,
Albert Lawson

Athens, Athens Co. O.

T. A. EDISON.

Menlo Park, N. J., Sept 24 1878

To the Editor of ~~the~~ Chemical News:

~~Not with standing Mr Houston's assertion regarding the telephone relay,~~

~~Mr Houston seems to be~~

In your issue of Sept 13. 1878 I notice a ~~reply~~ Counterstatement from E. J. Houston of Philadelphia regarding my assertion that the Telephone Relay which he has brought out and which was devised by me ~~over~~ a year ago, ~~He slightly corrects when he adds that I did not use the same instrument for transmitting & speaking Telephone Currents,~~ He says =

"Now it appears from a description of this instrument in the Telegraphic Journal of July 1st 1877 That Mr Edison calls his invention a pressure Relay and states that it is intended to be used in connection with his speaking telegraph. So far as I can learn this speaking telegraph is not an absolutely

T. A. EDISON.

Menlo Park, N. J., 187

telephone but a species of harmonic telegraph in which vibratory ~~impulses~~ pulses of Electricity are employed in a manner somewhat similar to the system of Gray. Nowhere in this article or indeed elsewhere that I can find does Mr Edison claim that his invention can be applied to relaying of rapidly varying Currents of the alternating telephone."

~~Now I choose~~ I quote from the article in the Journal of July 1 1877. which he mentions

* For instance if a weak current circulates upon the line in which the relay magnet is inserted the attraction for the armature will be small. Consequently a weak current will circulate within the second circuit & much contrary of the current in the first circuit be long the pressure upon the plumbago discs will be increased & in proportion will the current in the second circuit be increased no adjustment is now required

EDISON.

3

Menlo Park, N. J., ... 187

It is probably the only device yet invented which will allow of the translation of signals of varying strengths from one circuit into another by the use of batteries in the ordinary manner. The apparatus was designed by Mr. Edison for repeating a sonorous vibration of varying strengths in his "Speaking Telegraph"

This apparatus is used now and was used at the date given to do exactly what the article says it was intended for. ~~If it is without~~ ~~[illegible]~~ The statement that a "Speaking Telegraph" is not an "articulating Telegraph" is a pretty small hole to crawl out of. Change of form and ~~[illegible]~~ ~~[illegible]~~ seems to be among the methods, nowadays of making startling discoveries.

743 BROADWAY, NEW YORK. SEPT. 30TH. 1878.

T. A. EDISON, MENLO PARK, N. J.

DEAR SIR,

I WOULD LIKE TO CALL SOME AFTERNOON THIS WEEK AND SEE WHAT EVER NOVELTIES YOU MAY HAVE TO SHOW AND, IF YOU WILL KINDLY NAME A DAY WHEN I CAN FIND YOU AT HOME I SHALL BE PLEASED TO MAKE YOU A CALL.

BY SO DOING YOU WILL CONFER A FAVOR BOTH ON MY PUBLISHERS AND ON

YOURS RESPECTFULLY,

Charles Barnard

of Scribner's

[SEPTEMBER 1878?]

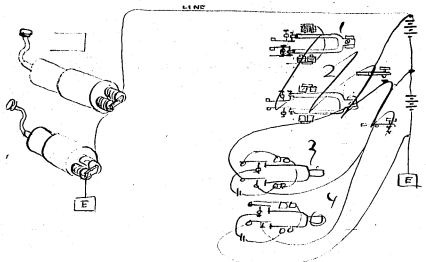
INCOMPLETE

Telephone (1876)

4

Sir,

My first system of acoustic harmonicon designed in ~~Aug~~ Sept 1875 is shewn in fig. 1. Based four tuning forks, arranging in their vibrating times from 100 to 800, these were kept in continuous vibration by ~~means~~ a local magnet and battery, placed in the main line were four main batteries A.B.C.D, each fork by a contact spring short circuited one battery, the short circuiting being controlled, by the separating keys E.F.G.H.



The receiver K.L.M.N were telescopic tubes

[SEPTEMBER 1878?]

INCOMPLETE

Systems have proved a practical success,

[SEPTEMBER 1878?]

INCOMPLETE

5—

~~Ber~~ arranged to adjust the Column of air to the proper time of the fork whose sounds were to be recorded in that particular receiver; on the end of the tube was soldered an iron diaphragm facing which & giving vibration to an air iron Electro magnet. ~~The system~~ when ~~prop~~ the Column of air was properly adjusted to the tone the signals due to the stopping & starting of the vibration by the distinct key were very loud compared to the times not in harmony with the column of air - ~~This system~~ connected to the tube was a flexible rubber tubing with ear pieces. This system worked well but one defect was very apparent and that I could not surmount was that the operator would get what is called the "back stroke." Even from the slightest cause such as the opening of ~~the~~ a door, ~~the~~ moving of the head, or the least malleation. It is known that with a Morse Sounder every dot is conveyed to the ear by two sounds the first sound being when the

[SEPTEMBER 1878?]

INCOMPLETE

lever strikes the lower anvil and the other when it strikes the upper anvil, a dash is also composed of two sounds like the dot but the interval of time between the production of the first or downward sound & the upwards determines its character, ~~now with to~~ and it very frequently happens that when a sounder is so adjusted that the down sound ~~is of the~~ is similar in character and of the same volume as the up sound that the order of reading becomes reversed and the ear reads the up sound as the down sound & vice versa rendering the signals unreadable and this order is only reversed by closing both ears or working the lever of the sounder by the fingers. Now in the musical signals the dots and dashes are formed by long and short waves, making it very difficult to read by the present operators. hence I am perfecting my keys to transmit two short series of waves close together to form a dot

[SEPTEMBER 1878?]

INCOMPLETE

7

and two series separated by an interval to form a dash, but there being no discriminative difference between one wave or the other either in time or volume, as with the sounder whose down sound is much greater than the up sound, I encountered the difficulty ~~just~~ above mentioned, ~~But when~~ It is probable that some means will be found ~~such~~ to give a difference between the two waves such as employed ~~by~~ two forks to form one set of signals, when this device ~~It's~~ system will be of some value,

It will be noticed that the receiving instrument which I use contains the diaphragm magnet & chamber of the magneto telephone of Prof Bell, and I believe myself to be the first to use it in acoustic telegraphs but I distinctly disclaim having discovered that communication could be carried on between one receiver and the ~~acting by con~~ upon the magneto principle by causing the voice to vibrate the

[ground slightly different]

[SEPTEMBER 1878?]

INCOMPLETE

4

diaphragm. This I conceded to proof of Bell as it never occurred to me and I was as much astonished when I heard in April 1876 of his discovery of the fact, and the practical demonstration of ~~that fact~~ in ~~May~~ June 1876 at the Centennial Exposition. Although I believe Mr Bell used parchment diaphragms with small iron armatures up to 1877.

Another system ~~was~~ for multiple transmission was the use of Reeds for receivers ~~upon the~~ ~~piano~~ so well worked out by Mr Elisha Gray which I will forbear to explain owing to the enormous complexity and lack of practical merit.

My first ~~attempt~~ at constructing an articulating telephone was, with the Rices telephone, ~~in 1877~~ harmonic and one of my Resonant receivers above described, and my experiments which covers many thousand pages of mss. culminated with the production of my present Carbon telephone I will briefly

[SEPTEMBER 1878?]

INCOMPLETE

Dry Cells —

9

With a Reas transmitter simplified having diaphragm facing a platina screw, I included in a circuit containing 20 cells of Battery and Bennet receiver placed a drop of water between the points, result negative, rapid decomposition of the water and deposit of a sediment on the platina, made discs Bath on diaphragm and screw, with several drops of water held by capillary attraction result confused words, and rapid decomposition of water (impure) ~~after~~ tried ~~the~~ various acidulated solutions, result confused sounds and decomposition. tried distilled water, nothing received, probably because at that time I used ~~thick~~ very thick iron diaphragms, as I have frequently obtained good results since; or because the ear was unsolicited or as has been shown by Prof Mayer. The ear ~~only~~ in the case of weak sounds only hears in many cases what the mind expects to hear — Sponge, paper, felling soaked with various solutions were used

[SEPTEMBER 1878?]

INCOMPLETE

between the discs - ~~[illegible]~~ Knife edges were substituted for the discs, with no better results, points immersed in electrolytic cells were substituted. Experiment with various devices for obtaining the same result, ~~the spring of 1876~~ Feb. 1876, when I abandoned the decomposable fluid and endeavored to vary the resistance of the circuit in proportion to the amplitude of vibration of the diaphragm by a multiplicity of platina points ~~to~~ springs and resistance coils ~~[illegible]~~ controlled by the movement of the diaphragm, but without success; ~~I also~~ in the spring of 1876, and during the summer I endeavored to utilize the great resistance of ~~pa~~ thin films of plumbago on ground glass and ebonite, Arkansas oil stone, and it was then that I first succeeded in conveying many articulate sentences. I caused ~~the~~ spring upon the diaphragm to cut in and out of circuit more or less of the plumbago film and employed numerous devices

[SEPTEMBER 1878?]

INCOMPLETE

11

but the disturbance which these discs caused in the true vibration of the membranes diaphragm prevented any practical results. One of my associates continued these experiments continuingly until 1877 when I discovered that plumbago and other semi conducting solids decreased their resistance by pressure, after ascertaining this point I constructed an apparatus consisting of a diaphragm provided with a yielding spring in its centre which spring was faced with platinum in front of this I placed in a cup secured to an adjusting screw, sticks of crude plumbago combined in various proportions with dry powders, Resins etc, and succeeded in producing a telephone having great volume of sound but rather poor articulation although but little difficulty was had in understanding ordinary conversation

[SEPTEMBER 1878?]

INCOMPLETE

12

by one used to the peculiar sound, after conducting a long series of experiments with sealed discs & ~~cords~~ adapted them for lights of conducting fibre consisting of floss silk coated with plumbago and other semi conductors. The results were very much ~~greater~~ better but still although the volume of sound was great the articulation was ~~not~~ not so clear as that of the magnetic telephone of Mr Bell, beside the ~~instrument~~ required an adjustment very frequently which was a very objectionable feature, ~~the~~ the difference of resistance produced by the ~~not~~ varying pressure placed upon the semi conductor ~~being small~~ was upon investigation found to be exceedingly small and it occurred to me that so small a change in a current of large resistance being a small factor

[SEPTEMBER 1878?]

INCOMPLETE

It occurred to me to put it into the primary circuit of an induction coil, where as well a change of resistance would ~~effect an~~ by an important factor, but the experiment failed as the normal resistance of the same conductor as then used was over one hundred ohms; after experimenting in various directions it occurred to me that if I could by any means reduce the normal resistance of the same conductor to a few ohms and still effect a difference in its resistance by the pressure due to the vibration of the diaphragm that I could use it in the primary circuit of an induction coil, upon coming to this result I arranged a transmitter in such a manner that a disc of same conductor was placed between two platina discs on a cup. The connection between these discs and the diaphragm was made by securing to the same a piece of rubber tubing 1/4 inch in diameter and 1/2 inch long which rested upon the discs, the vibration of the

[SEPTEMBER 1878?]

INCOMPLETE

the phenomenon gives the resultant pressure ~~by the same Conductor~~ of the platina discs upon the same Conductor and thus varied the resistance. This was included in the primary circuit of an induction Coil, ~~with a disc~~ a disc of solid Electrolyzer plumbago was at first used and the results was excellent Everything was ~~quite~~ satisfactorily ~~but~~ ~~to~~ But the volume of sound was not greater than that of the magnetic telephone to obtain a disc which would have a low normal resistance and still produce great change in its resistance to slight pressure I tried, Various Conductors, oxides, sulphides, ~~etc, and~~ and other partial Conductors among which was a small quantity of ~~Indianly black~~ lamp black which had been ~~pressed in a bottle~~ detached from a petroleum lamp and preserved as a curiosity on account of its

[SEPTEMBER 1878?]

INCOMPLETE

15

ultimate black color a disk made from this ~~of mica~~ when placed in the telephone at once quite splendid results the articulation being quite distinct and the volume of sound several times greater than those obtained on the principle, upon Inductophone it was found, that this disc could be reduced in resistance from ~~[illegible]~~ 300 ohms to a fractional part of an ohm. by pressure and that the best results were obtained when the resistance of the grooving wire was 6/10 of an ohm and the normal resistance of that disc ~~of~~ 3 ohms, ~~with this apparatus~~.

Mr Henry Bentley ~~of~~ President of the local telegraph Co at Philadelphia has made ~~a series of~~ an exhaustive series of experiments with a complete set of the apparatus upon the wires of the Mutual Telegraph Co. discussed in work a wire 720 miles long and found it a practical instrument upon wires 100 to 200 miles in length notwithstanding the fact that the

[SEPTEMBER 1878?]

INCOMPLETE

same wire upon this same place
with other wires from which powerful
currents were thrown into
the telephone wire, destroying entirely the
sounds of the magnetic telephone owing
to the lack of Volume. ~~which these~~
~~that~~ He also ascertained that the idea
was perfectly practical when included
in a morse circuit with a battery and
eight or ten stations properly with
the ordinary morse apparatus,
also that several way stations
could conduct conversations telephonically
upon a wire which was being
worked duplex without disturbing
the latter, and in connection stating that
the powerful ~~to~~ reversed currents
of the duplexes were effecting
the diaphragms of the receivers
the volume of sound more than
compensating for the noise
which ~~Mr Bradley was experimenting~~
~~at Philadelphia~~ within a very

[SEPTEMBER 1878?]

INCOMPLETE

short period while experimenting with a view to dispense with the rubber tube which connected the diaphragm with the rheostatic disc, which was objectionable on account of its tending to flatten by continued vibration and thus require a readjustment of the instrument. I discovered that my principle unlike all other acoustical devices did not require any vibration of the diaphragm that the sound waves could be ~~directly~~ translated into electric waves without the movement of any intervening mechanism. I arrived at the result in this way: I substituted a spiral spring with 4 turns of wire 1/4 inch in length for the rubber tube for connecting the diaphragm with the disc, and found that the spring

[SEPTEMBER 1878?]

INCOMPLETE

Telephone.

18

gave a musical sound. hoping to raise the pitch of the sound so that it would naturally effect the voice, I ~~made~~ kept ~~using the~~ substituting spiral springs made of thicker wire ~~at the~~ same lines noticing that the talking was both clearer and louder. at last I substituted for the spring which progressively had become inelastic a solid substance when the improvement in the clearness was marked & then occurred to me that as the whole matter was one of pressure that it was not requisite that the diaphragm should vibrate at all whereupon I put in a diaphragm 1¾ inch in ~~diaphragm~~ diameter and 1/16 thick, ~~the arrangement was perfect and the~~ ~~most~~ screwing the case block and plate tightly together so that the loudest lines

[SEPTEMBER 1878?]

INCOMPLETE

phones) no vibration of the plate upon listening at I found my surmises verified the articulation was perfect and Volume of sound so great that conversation carried on in a whisper ~~loss~~ three feet from the telephone was clearly heard at the other end. This is my present telephone which is distinguished by the Bell or telephone and is fully described in one other part of this work with various adjuncts. ~~The various other~~ telephones ~~I have~~ devised by myself with other experiments are also described in this work to which I refer —

THE

SCRIBNER'S MONTHLY
ST. NICHOLAS

SCRIBNER & CO., 743 BROADWAY, N. Y. Oct. 6 1878.

I would like to call out Saturday afternoon if convenient — Will come unless I hear from you —

Yours —

Charles Barnard

Subscr.

CROWN BUILDINGS, 188, FLEET ST.
LONDON, E.C.

Oct. 9. 1878.

Dear Sir —

We are pleased to hear that you have succeeded in finding a practical method of applying the electric light to dwelling houses. As we have little doubt that, when your patents are properly secured, you will be publishing some small description or treatise [1]

Sir W. Siemens to on work on Electric Light
W. Siemens Esq.
C.E.
Crown Bldgs
Fleet St.

giving a full details of your discovery, we wished to suggest to you that we should publish it for you here in England one day or two before its appearance in America. By this means we shall be able to secure the copyright of it in England, as well as the right of translation in all foreign countries with which we have copyright [2]

treaties. If you will send us the M.S. or advance sheets we will produce the book for you, and give you a royalty of 10 per cent on the published price of every copy sold in the ordinary course of trade. Also half the proceeds of any sales of right of translation or reproduction to other countries. We should suggest ourselves a small book containing a few explanatory diagrams or illustrations that might be sold here for about 1/- or 2/6; and, we believe from the interest that is now being taken in the matter a large sale may be anticipated. Should you not be acquainted with our names which are pretty well known in America we may refer you to Harper & Brothers

Yours very truly
Sampson Low, Marston, Searle & Rivington

Offer Edison

[83]

No. [83].

Menlo Park Oct 14/78

L. S. Metcalf
No 38 West Washington Square
NY

Not this issue see you
tomorrow

E. Johnson

Copy

Menlo Park N. J.

T. A. EDISON.

Frank Leslie's Publishing House.
537 Pearl Street, corner of Elm St.
53, 55 and 57 Park Place
one Block from Broadway.

New York, Oct 16th 1878.

T. A. Edison, Esq.
Menlo Park, N.J.
Dear Sir,

Mr Frank Leslie presents his compliments and desires to know if it would be agreeable to you to have an artist from this establishment accompany you to Albany and illustrate your experiments with the electric light in the new Capitol, as the daily papers report you about doing. If so will you please inform him of the time and place for the gentleman to meet you?

Very Resp'tfly
Frank Leslie
by G. J. H.

Dessau 5.6.[illegible]

Hochgeehrtester Herr

Es wäre mir eine grosse Ehre, wenn Sie in den deutschen Reichs an den Wissenschaftlichen Wahrsprüchen wie Petterkofer, Wöhler, Hurley u.a. mitwirken könnten. Einen Artikel [illegible] jeden Artikel von Ihnen wird mir sehr willkommen sein. Die Abrechnung übernimmt die Redaktion. Um gef. baldige Mitteilung bemüht sich ich auch jetzt Verlegenheit Ihr ergebener

Chef-Redakteur des deutschen Reichs

Richard Fleischer

Office of "The Engineer,"
163, STRAND, LONDON, W.C.

Oct 18 1878

Dear Sir,

We have all heard in this country of your remarkable discovery of the Electric light.

May I venture to hope that you will give the first authentic & illustrated account of your invention in this country.

I would point out that the course which The Engineer has taken in dealing with your labours is somewhat different from that adopted by other journals, and I fancy that you will find little reason to regret our proceedings & our new ingenuity.

Yours faithfully
W. H. Preece
E. Edison Esq
&c &c

J. Pended (?)

T. A. EDISON. 4 5 P.M.

Menlo Park, N. J., Oct 18 1878

My 18
T A Edison Esq

Can you return the Electrotypes of the Tasimeter tomorrow to make Electrotypes of. I have lost the wood cuts and shall have to get them engraved again unless you can lend me yours.
G. B. Prescott

3 3.55 H
Pa G.

T. A. EDISON. 5

Menlo Park, N. J., Oct 18 1878

Menlo Park 18

Mr G B Prescott
Hy

They are in Salem
Mass. Can write
for them
T A Edison

9 N H 5 10 P M
G Pa

T. A. EDISON. 3 1005

Menlo Park, N. J., Oct 19 1878

My 19 T A Edison

Need not send for them Have found the original Wood Cuts G B Prescott

115th Dr 9

George B. Prescott
Electrician

Electrician's Office
Western Union Telegraph Company
New York, Oct 19 1878

Friend Edison

Several of my friends who are deaf or have deaf wires, have asked me if you have invented anything to aid their hearing. Mr. Thrup inquired today and I promised to ask you. Try and let me know.

My article on your recent acoustic inventions will appear in the next issue of Appletons Journal or Popular Science monthly, and in my next edition in December.

Yours truly
Geo B Prescott

Newport Oct 20 1878

Dear Edison

I realize with regret that some of the papers mention of your well earned fame are doing all in their power to detract from the same and belittle you. I know that so far as you are personally concerned you don't care a hot what they say but it may the less pain your friends. As one of the latter therefore I speak in the hope that the suggestion I offer may have a tendency to stop this sort. The interview with you in Sunday Sun is of the character that does you harm. It makes you to be much talking. My friendly

My Oct 22, 1878
Em Foy
No ans

author hope is not to lose to any more reporters. Let them write all they please about your inventions, let them if they desire compare with every employee in the laboratory, but keep yourself aloof and reserved. You never speak ~~for~~ to reporters. In all that I have written about you I have sought to keep you on a high pedestal. Holding you out to the world as a chewer of tobacco and all such talk as does the man in the interview published is really too bad. Showing your natural reserve and silence about your great services, I am all the more pained to see you represented in the character of a person talking at liberum about them.

You should speak frame is due more to his reserve and silence than to anything else. Every word that you utter for publication should be to accord with your reputation like thunderbolts.

I must my dear fellow that you will take these few suggestions in the spirit in which I write them. They are the remarks of a friend who is honestly desirous of seeing you mount still higher on the ladder of undying fame.

Truly Yours
E. M. Fox

P.S.
Where will you be in town?
Ellis.

with the national weakness, I am proud of you - your mother I believe coming of a Scottish stock. I have spoken to Mr Adams your agent in London and he promised to mention the matter to you also. What we want is a good negative photograph sent us as soon as convenient - together with some notes of biography, or the most reliable newspaper accounts that have appeared of you. The portrait & and biography would appear at an appropriate time here, as soon after your Electric Light, has been made public as possible. Trusting that you will kindly favour us in our request, and apologising for trespassing on your valuable time, I beg to remain

Dear Sir

Yours truly

J. Munro

Editor of Telegraphic Journal

P.S. We should be glad early reply.

T. A. Edison Esqr.

[23]

The Telegraphic Journal & Electrical Review.

10, Paternoster Row.

London, E.C. Oct 24th 1878

Dear Sir,

In our English Telegraphic Journal, which you are yourself a subscriber, we have been giving for some time past a series of Woodbury Type portraits of our most eminent home and foreign electricians. It would give us much pleasure, and I am certain it would be a welcome event for our readers, to produce your portrait next in the set, or as early as it could be managed. You have many admirers in this country - and I may say that, as a Scotsman.

[1]

London Eng. Oct 24/1

J. Munro
Editor Telegraph Journal

Arrived & sent
photo Nov 5 — 78

LA NATURE

REVUE DES SCIENCES
Et de leurs applications aux Arts
et à l'Industrie

JOURNAL HEBDOMADAIRE ILLUSTRÉ

RÉDACTION :
3, Rue Neuve-des-Mathurins, 3
PARIS

Paris, le 26 octobre 1878

Cher Monsieur

Je vous remercie infiniment des clichés que vous avez bien voulu m'envoyer et que je me ferai un plaisir de publier dans La Nature.

Je suis très honoré d'entrer en relation avec un savant de votre mérite et je vous offre autant que vous le voudrez l'hospitalité de votre journal.

Veuillez me croire

Votre tout dévoué

G. Tissandier

Paris Oct 26/78

Editor of La Nature

Give Edison freedom of this paper to publish anything he likes

Nd Ouvrard

THE GRAPHIC COMPANY.

THE DAILY GRAPHIC, $12 a Year. | 39-41 Park Place, New York. | PRINTING in Every Variety.

New York, Oct. 28. 1878

My Dear Editor & (Batchelor, Griffin, et al.)

Telegraph me just as soon as you are willing to have that lamp & new telephone fully described. Don't let Cummings get ahead of me!

The photographer will come down with me to see if your light can be applied to photo-lithography.

Kiss the baby for me.

Yours very truly
A. E. Dwight.

I had long article about Edison in Indiana State Journal (Indianapolis) of yesterday.

THE UNIVERSAL ENGINEER,
PUBLISHED
EVERY FRIDAY.
OFFICES:
MANCHESTER:—14, OXFORD ROAD.
PARIS: 26, GALERIE COLBERT.

L'Ingénieur Universel,
(The Universal Engineer,)

Manchester, Oct. 28th 1878

Thomas Alva Edison Esqre
Menlo Park
New Jersey.

Dear Sir.

We have with great interest read of your astounding invention and seeing the patent granted No 4226 we should be very much obliged indeed if you would kindly favour us with the description & if possible a lithograph or sketch of your lamp or light or that we may be the first to give the exact publication in our columns in French & English & we also send you our journal of last Friday & shall be happy to post you on on hot off inquiries. Your early answer will be greatly esteemed by yours obediently

for the Proprietors

Richard Lucas

—ESTABLISHED IN 1826—

Northwestern Publishing House

OF

SILAS FARMER & CO.

OFFICE, 31 Monroe Ave., Corner of Farmer St.

Detroit, Mich. Oct 29 1874

T. Edison Esq

Dear Sir

I have been at work one 3 years compiling an elaborate History of Detroit with over 2000 months of illustrations.

I would be glad to note in it the time when you used to visit Detroit in your cars on the Grand Trunk RR. Did you at any time make Detroit your home?

If you can recall any fact of interest connected with your trips to our city I would be very glad to obtain it.

Our work is not dep[illegible] affair I refer you to the enclosed.

Yours truly

S. F. Farmer

[ENCLOSURE]

PUBLISHING HOUSE
—OF—
SILAS FARMER & Co,
31 Monroe Avenue,

DETROIT, September, 1877.

DEAR SIR:

We have now been at work for over two years collecting material for our ***Illustrated History of Detroit.*** It will be the most complete and elaborate work ever published in the city, and the cost of publishing is estimated to exceed $10,000.

We have procured a large number of original drawings of Old Churches, Dwellings, Scenes and objects of interest, besides a large amount of interesting facts never before published.

We desire to have the work as complete as possible, and therefore solicit your co-operation. Will you please answer the following questions:

1st. Have you any old Drawings, Woodcuts, Lithographs, Daugerreotypes, Photographs or pencil sketches of old Buildings, Localities or scenes in Detroit of any sort?

2nd. Have you any old Newspapers, Magazines, Pamphlets, Posters, Circulars, or printed matter of any kind that would perhaps contain facts of interest?

3d. Have you any of the "Small Bills" issued by Merchants in olden times, or have you any of the old "Corporation Shinplasters" or City "Wild Cats"?

4th. Have you a copy of the newspaper "Carrier's Address" of any year? They frequently contained local allusions that would recall facts of value.

5th. Have you any article of any kind or any facts upon any subject connected with the past history of Detroit that you think would be of service?

6th. Will you please examine or have your shelves, book cases, drawers, boxes and old trunks examined for any of the above named materials?

Please observe that our work is to be an original work and of such a character that it is destined to be a standard work for reference and quotation for many years to come. If you can furnish any of the materials suggested please state when and where they can be seen.

Your prompt attention to this matter will be duly appreciated, and we will give full credit and satisfaction for all assistance rendered and courtesies received.

Very truly and respectfully,

SILAS FARMER & CO.

The following testimonials from a few persons more prominently connected with various efforts at collecting and preserving the history of the city, will emphasize the confidence already so universally expressed as to the value and desirability of the work in which we are engaged:

I have been fully informed concerning Mr. Farmer's plan, and take pleasure in saying that he has been remarkably painstaking and successful in discovering and putting to use material which will be of permanent value and interest in regard to the local history of Detroit. He has received assistance from other persons of known competence, and I am sure that any information given him will have its share in perfecting a work that cannot fail to be a desirable addition to our annals. JAMES V. CAMPBELL.

I know something of the effort it requires to obtain reliable information concerning early days in Detroit, and I have been pleased at the earnest and successful efforts made by Mr. Farmer to obtain rare views and information. I have freely given him the use of material collected by myself and believe his work will be exceedingly comprehensive and valuable. ROBT E. ROBERTS.

I have furnished various items of information to Mr. Farmer for his "Illustrated History of Detroit," and believe that all who aid in its publication will be furthering an enterprise that will be of value to the city. J. C. HOLMES.

Mr. Farmer's plan of an illustrated history of our city has been a subject of frequent conference between us, and as an old settler I have felt a deep interest in its success. I am sure that if untiring assiduity on his part can insure that, our citizens will rejoice in the possession of a most valuable documentary collection. C. C. THOMPKINGE.

I have collected many facts concerning Detroit and have cheerfully given Mr. Farmer the use of materials in my possession, including copies of many valuable papers presented to the Pioneer Society, and I am sure he will make good use of any historical materials furnished him, and those who furnish them may thus aid to make known and preserve the history of the City and State. LEVI BISHOP, *President of the Pioneer Society.*

Through the courtesy of Hon. C. I. WALKER, we have been permitted to make use of the valuable material contained in his extensive Library of Historical Works and rare manuscript collections; and also aided by him, we have had access to the original Records, Documents, Manuscripts, and other historic material collected by and belonging to the old Historical Society, organized by Gen. CASS, H. R. SCHOOLCRAFT, and other distinguished gentlemen, many years ago. We have also availed ourselves of many other sources of information, examining a mass of official papers and proceedings never before consulted for historical data.

The Plumber & Sanitary Engineer

EDITORIAL ROOMS,

P. O. Box 3037.

New York, Oct 31 1887

Dear Sir

At the request of Prof Morton we send you an advance copy of his forthcoming article in our Nov issue - which will doubtless interest you -

Very truly Yours -

Prof. Edison,

Geo. F. Wingate
Editor

PS. These articles will be continued in future issues - any comments you may make on them will be acceptable

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

The Company TRANSMITS and DELIVERS messages only on conditions, limiting its liability, which have been assented to by the sender of the following message.

To prevent mistakes it is agreed that the sender of a message shall be the sending station for correction, and the Company will not hold itself liable for errors or delays in transmitting unrepeated messages, nor for errors in messages received by telephone.

No liability is assumed by the Company for repeats of the sender under the conditions mentioned.

A. R. BREWER, Sec'y. WILLIAM ORTON, Pres't.

Dated Newfoundland Oct 31 1887

Received at 1204

To Thos A Edison

Can you see reporter from our paper this afternoon

Please answer to Tribune.

Henry Hall

1 Paid
Mon

READ THE NOTICE AT THE TOP.

Nov. 2. 1878

The London "Times"
having authorized me to send
them the earliest reports of your
electric light discovery, I should
feel greatly obliged if you would
send me a cable message
respecting progress, that I might

I see by the 'Times' that you have 'cabled' when announced the Mr Maclean Lecture to Physicists

of a long article on your "Laboratory"
in the "Times" has been copied
everywhere. I am sending that
leading journal a letter on
your laboratory which will
appear in a day or two, & copy
will be sent you.

With many congratulations
Yours very truly
W. F. Barrett

T. A. Edison Esq

Dublin
Nov 2-78
Prof Barrett
Acc'd Nov 15 78

publish in that paper. Of
course all expenses will
be paid at this end. I need
not tell you what a
wild enthusiasm throughout
England & Ireland has been
created by your discovery,
and not which you attribute

you an announcement at my
Birmingham lecture, and I
should feel it a personal
favour if you would enable
me to give the Times the earliest
information on the principles
of your discovery or of the
progress you have so far made.
Just now you are the best
known man in Great Britain

Rec'd Nov 2d 78
E M Fox
Ans'd Nov 4-78

Herald office
Newport Nov. 2 1878

My dear Chevalier:

I have pledged my sacred honor to the Herald to have ready for them by Friday next that biographical sketch of your Royal Highness, and as it would be only proper to have an occasional fact in the article it will be necessary for me to see you before then. I cant go away to go to Menlo Park as I must be in Court a portion of every day during the week, so I must rely on my chance of catching you in Newport.

Will you therefore, my cherished member of the Legion of Honor, telegraph

me at once what day you will be in and what time and where I can see you for a half hour?

It is as necessary to sit for your biographer you know as it is to sit for your sculptor or painter. Each must have the model before him to be master of the subject.

Hoping therefore to hear from you Monday

I remain

Ever yours

Ed. M. Fox

P.S.

I am solemnly charged by my little boy to express to you his sincere appreciation of the courtesy shown him this P.M. in his visit to the laboratory. He thinks that "mama" is a grand phonograph" is immense. E.M.F.

Ans Nov 5 78
Henry Hall
Ans Nov 5 78

New-York Tribune.

New York, Nov. 3, 1878

Mr Thomas A. Edison
Menlo Park, N.J.

Dear Sir:

I am preparing a general article on the subject of the electric lights, which will appear about Friday or Saturday next. I have seen the Sawyer and other lights, and would like to see yours too. It was not visible the other day when I was at your place. Can you not arrange it so that I can

Come out some afternoon this week and see the light burning. I don't come to examine the apparatus, but merely to see the light. Is it not for your interest to show it to me? I can come any afternoon you will name, and would really like to see the light burning.

Sincerely Yours
Henry Hall.

Recd Nov 5 1878
Acknowledged
Interview
Sent to Mr Kennedy
Not Found

My 5th Nov
Jy

Care Parke Row

New York Nov. 5th 1878

Friend Edison;

Enclosed is a letter I have just received from our mutual friend, Fraser Rae, the amicable correspondent of the London *Times*, which, as it contains some allusions to yourself, I send you for perusal. After reading please remail.

Your note, kindly offering to answer categorically my questions relative to the Herald sketch is at hand. My first idea of the undertaking was that one or two interviews with you would supply me with all the material necessary to the task, in which view of thinking your suggestion would answer all purposes; but, on reflection I hardly feel that I can do the subject justice

without more of a sacrifice of time and labor. What the Herald wants is a vivid, succinct, terse, graphic sketch not only of your past life but of all the minor incidents of the present — how you act, talk, live, work and look — the struggles and obstacles attending the completion of your chief inventions — your method of classification — your system of detail etc. etc. — the whole going to make up a lively and interesting pen picture. For such a work, I am paid, and as the compensation is good, I am anxious to earn it by making the article a standard one of which the Herald may feel proud and to which both you and myself may point with satisfaction.

(And entre nous I will say that it is not outside the bounds of probability that the article may be published simultaneous with the completion of the Electric light)

To write such a sketch it will be necessary for me to leave all other business for, at least, a week, and taking up a habitation near the laboratory, say in a room which I hire, in the station agent's house; place myself in such a position that when the spirit moves I may drop in upon you, get my note book full of fresh crisp data, and hurrying to my hermitage jot it down while yet the flames of fancy's fire swell high within my brain. This is the only way in literature to do a subject justice. A man may sit down and spin out words by the hour descriptive, says, if you please of the beauty of some picturesque landscape, yet unless his eyes have feasted upon the glory he describes his words fall flat and useless.

like the ambitious artist making on the price painting of his life I desire to have my subject within visions easy range.

Do you not agree with me, my esteemed manipulator of the fiery lightning?

Please write me at once what arrangements I can make with me of the natives of Menlo Park for room and board for a week, commencing say next Saturday. Griff would be a good man to hold a place if you will ask him to look one up. Of course during my sojourn I will so regulate my tasks as not to interfere materially with your work.

Truly Yours
Edwin M. Fox

P.S.

I am just in receipt of an invitation from Prof and Mrs Draper to visit their residence Monday Nov 9th on the occasion of the reception of the National Academy of Science. Are you going? Ed. F

various countries. It will facilitate these, however, if you can give us any idea as to when we are likely to receive the M.S. and whether there will be illustrations, etc. We need hardly urge upon you the advisability of not allowing any description of the details to appear in the newspapers before the pamphlet is published. There is very considerable excite-

(2)

Reply 16 Oct. 78

CROWN BUILDINGS, 188, FLEET ST., E.C.
LONDON, E.C.

Oct. 5. 1878.

Dear Sir—

We are obliged by your letter of Oct. 22 giving a description of your invention for dividing the electric current.

We will commence negotiations as soon as possible with various houses on the continent with a view to its appearing simultaneously in the

(1)

ment at present on this side regarding the electric light, and especially with respect to your own invention. Of course you will arrange with some American publisher to issue it in the States, and we had better be put into communication with him so as to send him sheets from

[3]

this side, unless you give him copy of the MS. sent to us; we can also arrange with him dates for publication on the two sides.

Hoping that your invention may be a great success in a pecuniary and every other point of view

We are

Yours very truly

Sampson Lowe.

T. A. Edison Esq.

[4]

Editorial Rooms
of Scribner's Monthly,
743 Broadway,
New York.

Nov. 5 – 1878

My Dear Mr. Edison,

We wish very much to have a full, accurate and illustrated article upon your new electric light in the January number of the magazine that will appear on the 15th of December. If we do this we can wait till the 15th of this month. Now, if this is done you may rely with entire certainty that no one would see my account of the light until it was actually published. This will give you thirty days in which nothing will be said.

SCRIBNER'S MONTHLY,
743 BROADWAY, NEW YORK.

Nov. 4th 1878.

Mr. Edison, Dear Sir,

It seems very much that the plan proposed could be carried out, without embarrassment to you. It would be as secret as the process may be here.

Will you be in N. Y. then next week and could you stop in here? — Yours very truly

R. W. Gilder

~~Will you be in N. Y. then next week and could you stop in here? — Yours very truly~~

~~Very gratification to us in receiving an~~

till the 15th of December. Our object is to have both an account of your invention, but also the first-hand account. In asking this favor it is but fair to say that Poland to have some account of the light in any event, but it would be much more satisfactory if Scribner's Monthly could publish it.

Editorial Rooms
of Scribner's Monthly,
743 Broadway,
New York.

2

and will perfectly protect you till the
15 of Dec. Now, if this is done, could
we ask you the great favor of withholding
all account of the light from all and
every publication in this country or England
till the 15th of December. Our object is
to have not only the account of your
invention, but also the first and only
account. In asking this favor it is both
fair to say that. Instead to have some
account of the light in any events, but it
would be much more satisfactory if
Scribner's Monthly could publish the

Editorial Rooms
of Scribner's Monthly,
743 Broadway,
New York.

Just accept of the light. Of course the Magazine had the only accent a better the first accent this fact could be satisfactorily administered. Both here and England and would place your work in a good light before the world. Trusting you will favor us with an early reply on this matter I am

Yours respectfully

Charles Barnard
Editor Scribner's Monthly
Scribner's.

(Nov. 5. 1878)

Editors Cincinnati Gazette,

You say "Let Edison should turn his attention to the flour question, and discover why it is that a barrel of flour costing $3.50 to produce should be retailed at $7 to $8." — With your permission I will explain to your readers, in behalf of Mr. Edison, that Inventor he has been quite ill, and is just getting about again, and is greatly pressed with the business he has in hand. Such being the case I will venture to say by way of answer to your proposition that if we will take our mental telescope, place it upon a horizontal plane, in line with our subject, give our body in the most stable position, and look through it steadily and inquiringly for fifteen minutes, at the object directly in our front, we will then discover & observe very distinctly, that all commercial transactions are based upon the hypothesis, that the dealer must buy at the lowest, and sell at the highest figures within his power to contrive, his purpose being to gain riches. Now it is the fact, that the average merchant is educated to strive for this profit, regardless of the principle of just dealing, regardless of injury to his neighbor or others in a moral view. And, that he may accomplish his purpose, he will not hesitate to pervert the truth, will not shrink at any dishonest trick, but, according to every perfidious maneuver, co-operating with every unfair, unjust, and dishonorable combination, or ring, that will help him to rob the community, his neighbors, he goes on trying to drive his trade, to accumulate wealth, and an aristocratic position. This we see is the custom. The habit, gives the second nature of our trading people, and in its course, there is to be found no honorable ambition ~~[illegible]~~, no high purpose, no good result, either to the individual, the community, or to the State, all are dragged down, dishonored, and the "march progressive" is retarded, there is a remedy, a corrective, for all this evil, and as opportunity offers, I will endeavor to furnish your readers, the foot marks of the way to gain honorable advancement and promotion, as the results of an honest & praiseworthy ambition,

Very Respectfully

Louisville Ky Nov 5 1878.

Evan Lewis Dyer
144 W. Jefferson St

PS. If you publish send me copy

Copy of Article
Sent to Cenin Gazette
No date
Rec'd from Phons
office Nov 11 78

2

you would be able to take the photograph in your Laboratory, and if you forwarded the glass negative ~~[illegible]~~ addressed to me, 'care of Mr. Adams,' I could easily send over for it. I should like to publish your portrait in our January number, and as the Woodbury process cannot well be hurried, I should like to receive the negative within a month from the present date, if you kindly consent to give me the

Reply to Kenington Oval

2. Shorters Court
Throgmorton St.
London E.C. 5 Nov 1878

Dear Sir,

I beg to enclose a copy of the University Magazine, and to ask whether you would kindly favour me with a portrait of yourself for publication, similar to those you will find in the Magazine.

Mr Adams tells me

picture. It would be popular with a large number in this country, I am sure.

I wish you every success in your remarkable discoveries, and am,

Dear Sir, Yours faithfully

Kensingale Cook. LL.D.

Editor University magazine.

P.S. One thing I hope

you will some day have time to teach the public how to do, which is for houses in cities to consume their own smoke. With protection & comfort due to the electric light, and an unvitiated air in which men might lead healthy lives, civilisation ought to have at least a chance of advancing.

Office of the New-York Associated Press:

Corner Pennsylvania Avenue and ~~Fourteenth~~ 15th Street.

Lock Box 23. Washington, D. C. Nov 9th 1878

Dear Mr. Edison,

George L. Catlin, formerly paragrapher of the New York Commercial Advertiser and now Consul at La Rochelle France writes me enclosing the within, and says: "I suppose you know Edison (who doesn't?) and I suppose he would like to see this. Will you be kind enough to give it to him, with respects of one of his appreciative admirers."

I hope you are quite well again and am.

Fraternally yours.

W. P. Phillips

New-York Press Club,

No. 6 CENTRE STREET,

New York, 11 Mar 1878

— Griffin Esq —

Menlo Park.

Dear Sir:

I wrote a little stuff in the Sunday Sens, about that electric light business. I trust my doing so, met with no objection on your part or that of Mr Edison. Pray

Do not forget me,
when you come into
the City and
Remember me
Yours &c
H. S. Hewitt

Mu Mss 1178
Hewitt
Box 1 of 18

Washington D.C.
Nov 11 1878

T. A. Edison Esq
Dear Sir:

Your kind note received. I will be with you on Monday next Nov 11 in the morning. I am sure you will not regret giving us the desired interviews, as I would it for publication in the New York Herald. There many things of interest & importance to you. Till then remain

Yours very Resp
W. H. Walton
Record Room
Patent Office

New York Nov. 13. 1878.

Friend Edison,

I shall send you the closing pages of my new chapter on electric light in a few days, and would be glad to have you carefully look over what I have said about your investigations, and make alterations or corrections as you desire to make. I shall insert with pleasure. Should you desire to have your invention described at any future time I will keep the pages of the book unbound, and insert your matter in a separate chapter.

Yours truly
G. B. Prescott

[TRANSLATION FOLLOWS]

Redaction der „Deutschen Revue".

Hochgeehrtesten Herr

Herzlichst danke ich Ihnen für Ihre freundliche Zusendung mehrerer Zeitschriften in den sehr interessante Artikel über Ihre Erfindungen veröffentlicht sind.

Ich werde diese Artikel in der deutschen Revue besprechen lassen. Leider kann ich aber keinen Artikel direct abdrucken weil nach Uebersetzung deutsch in der Revue beachten.

In der deutschen Revue werden nur bisher angedruckte

[TRANSLATION FOLLOWS]

Artikel veröffentlicht.
Zur größten Freude würde es mir deshalb gereichen wenn Sie hochgeehrter Herr mir ein Manuscript gefälligst senden würden welches geeignet in der deutschen Revue publizirt werden kann.

Das neueste Heft der deutschen Revue beehre ich mich Ihnen einzusenden (November-Heft 1878)

Hoffentlich ist es Ihnen hochgeehrter Herr möglich meinen Wünschen zu erfüllen und ich sehe hierüber Ihrer gütigen baldigen Mittheilung entgegen.

Hochachtungsvoll grüsst

Ihr

Dresden Sie hochverehrender

Reichsstr. 2

Richard Fleischer

[TRANSLATION]

Didn't know anything about it!

Dresden Nov. 14 - 1878

Office of the German Revue

Respected Sir:

Accept my hearty thanks for your kindness in sending me the newspapers & periodicals containing some very interesting articles on the subject of your inventions.

I will cause these articles to be reviewed in the German Review. I regret however that I can not print any of them directly in the Review, not even after translation.

None but previously unprinted articles are published in the Review.

I shall, therefore, receive with great pleasure, if it should please you to send it, a manuscript which shall appear for the first time in the German Review.

I have the honor to send you the latest number of the Feuiliton Review (for November 1878)

I hope, Respected Sir, that you will be able to comply with my wish, and I shall wait for an early communication

Very Respectfully Yours
Richard Fleischer

Dresden
Reichsstrasse 2

Boston Journal
Morning Journal — Evening Journal
Weekly Journal, Semi-Weekly Journal
PUBLISHED BY THE JOURNAL NEWSPAPER COMPANY,
264 Washington Street.

Boston Nov 16 1878

Thomas A. Edison Esq.

Dear Sir:

I have seen in some of the papers a statement that you contemplate an experiment of illuminating your village by means of your electric light. When you are ready to let the papers know what you have done and are doing I should like to follow up my articles upon your [illegible] (which I hope you remember) by a full description of the new idea. Possibly I may be able to visit Menlo Park when you do the great experiment. Will

you kindly let me know when the
work is begun!

With congratulations on account
of the recent honors conferred upon
you I am

Yours very truly

Fred N. Nelson

Baltimore Nov 16. 98

Prof. Wm. Libbey

Princeton N.J.

Nov 18-78
R. W. Grant
Editor Harpers Weekly
Send Nov 19 78

Franklin Square,
New York, Nov. 18 1878

Dear Sir:

We would like to publish in Harper's Weekly, a full and authentic account (at least, as full as may be consistent with your interests in the matter) of your electric light, with carefully prepared illustrations. The subject is one in which the public feels a deep interest, and it is necessary that the information we give should be accurate in all particulars. The Harpers would be glad have an article from your own pen, describing your invention: but if,

Thos. S. Edison, Esq.

as I fear, your time is too much occupied to permit this, can you designate some one whose knowledge and ability as a writer would enable him to furnish the article?

Our Mr. Theodore Davies will call upon you soon, in relation to the illustrations. Meanwhile will you kindly drop me a line in answer to the foregoing and oblige

Yours truly
S. S. Leonard
Editor Harper's Weekly

NOTE

To T. A. Edison Esq
Menlo Park
New Jersey

FROM GEO E GOURAUD
6 LOMBARD STREET. EC.
LONDON. 19 Novr 1878.

There are a lot of biographies of you going about, more or less contradictory, and principally derived from American papers. I am frequently asked to name that, which in my opinion, is most authentic; so I think the best thing you can do is to tell me privately which you consider the most authentic and I will make my answer accordingly. I hear there is a very good one illustrated in 'Scribner's' Perhaps you will indicate this or if you will indicate which is the most authentic. Or if there are none authentic and you well care to revise one such as you will like to have published here I will see that it is done without it appearing to have emanated from you. It might indeed be worth your while to do this in order to have current the one you most approve for you must make up your mind now to be written about most profusely and it is just as well to take the precaution above suggested, in this country as well as in America

GG

I forgot to ask you.

Nov. 23 (1878)

Friend Tom:

Please telegraph to me at Sun office how many lights ~~of 16~~ equal to a gas burner you think you can get out of an 80 horse power engine with present generating machine

Truly
Amos J. Cummings.

Thomas A. Edison
President
Personal.

Received at the Patent Office
May 2, 1878

[ATTACHMENT]

T. A. EDISON.

Menlo Park, N. J., Nov 23 1878

Amos Cummings Sun office NY

Three lights for each horse power, six with new machines T. A. Edison

10 DH

24 1 Pm 9 Ma

having both portrait & light in one number, making it an Edisonian number, is obvious. You are doubtless aware that the Telegraphic Journal is the principal electrical organ in Europe, and there will be no delay in our reproduction of the electric light descriptions for we will issue weekly next year. Professor Barrett is a supporter of mine; but we would like to have an early detailed account direct from yourself at the proper time. I need hardly say that we shall be only too happy to receive similar accounts of your other inventions and discoveries.

Trusting that your wife obeys is in the above request I beg to remain, Dear Sir,

Yours very truly

John Munro

Ed T. J.

T. A. Edison Esq.

The Telegraphic Journal & Electrical Review.

10, Paternoster Row,

London, E.C. Nov 25th 1878

Dear Sir,

Your favour of Nov. 25th with the excellent photographs enclosed came duly to hand. Accept my best thanks for the same. We intend to produce the photo and biography immediately after publicity has been given to the Edison Electric light. I would much prefer to bring out the portrait, however, in the same number with our detailed and illustrated description of your light. Could you kindly help us in this by forwarding to us an early account of the light so that we could publish it here simultaneously with the American Journals? Some other American inventors have accorded us this privilege, and in this case the advantage of

"History of the telegraph in America"

NY Nov 25 '78

Dear Edison.

I send you my book. You did not order it I know, but no doubt you want it.

Now I have stopped the binding until I see if I cannot get you to give me a good steel likeness. I must have something better than I have. It is meaner + every body says you ought to have a better show.

Can't you do something about it and at once. I can get a good engraving for $125 by Ritchie or his best at $200.

I am awfully in earnest. Can you send me a photo?

Yours

J S Reid

Ulf. Nov. 27, 1878.

Mr T. A. Edison;

Dear Sir,

Professor Youmans being up in the country over Sunday, I could not see him personally but put him your note by Dr. Youmans. Dr Youmans departed personally. I this morning received the enclosed reply. I am sorry, but it is a rule they never yet have deviated from.

Yours truly,

E. M. Shaw.

[ENCLOSURE]

Popular Science Monthly,
549 & 551 Broadway,
New York, Nov 26 1878

Mr. Elm. Shaw

Dear Sir

While we should be very glad indeed to oblige Mr. Edison it is decided not to depart from our usual course regarding the portraits published in the Monthly. We have opened neither pains nor expense in this production, and intending them for future as well as present use have uniformly declined to either loan or sell electros of them.

Regretting that we are thus compelled to decline what otherwise it would certainly be a pleasure to grant

We are Yours truly
Editors Pop. Sci. Monthly
W. J. T.

Menlo Park
Nov 27 78

Jas Gordon Bennett
NY Herald N.Y.

Will not have anything
tonight obliged to
remain over all night

Ed M Fox

12 Collect
835 Pm
9 MM

John H. Porter
Benjamin P. Lowrey
Geo. Hale Stone
Chas. Francis Stone
George F. Hamilton

P.O. Box 1836

Porter, Lowrey, Soren & Stone,
Attorneys & Counsellors at Law,
No. 3 Broad Street (DREXEL BUILDING)
New York, Nov 29 1887

T.A.E. You replied as to the official but overlooked the business this is not your work - Hence I conclude you wish me to consider your former division in reference to Electric light Article as sufficient - & be final - but unfortunately I am pressed by Metcalf in such way that I cannot say no - without some authority from you for so doing - If you dont want it done - Please telegraph me tonight to 101 Waverley Place Co. D, to that effect - Metcalf

is coming to see me
tomorrow & I must be
prepared to give him the
final Quietus - or to
do the job - I don't care
particularly which - To be
sure I want to earn the
money - but not at the
expense of a premature
publication of your affairs
See the Duke on your
Courtship - (this morning)

Yours
E.H.

J. B. LIPPINCOTT & CO.,
Publishers, Booksellers, Importers, and Stationers,
715 and 717 Market St.

Philadelphia, 2d Mo. 1st 1878

Dear Sir,

I am engaged in bringing out an important work of reference for the firm of J. B. Lippincott, designed to include among other matters, brief notices of recent inventions of real value. Among these we recognize yours as taking the highest place, and therefore wishing to do justice to them as well as to yourself by giving adequate, or at least accurate, descriptions of them so far as the space at my disposal will permit. I have not materials for formulating such descriptions nor do I know any one to whom I can apply for information except to yourself. Will you kindly then assist me either by informing me where I can find trustworthy descriptions of your inventions; or in the event of your not knowing where such are to be met with, by furnishing me with such either by yourself or by some of your assistants to

assistant to?

Very brief notices will suffice – The appended notice of the Vasimeter, called from a descriptive pamphlet in the London Times will give you some idea of the space at my disposal – Please verify it's correct –

Of course how valuable your Annexes and how desirable to be relieved from protests of mere curiosity, and hence, therefore, the greatest delicacy in troubling you; but the thing pre-eminence of your interests makes all the more anxious to secure an accounting of them.

Hoping you will accept of this as my apology,

I have the honor to be
Very sincerely Yours,
James Hunter

Jos. A. Edison Esq.
Menlo Park

c Vasimeter. An instrument invented by Edison for measuring the heat of the solar corona; based on the principle that the electric resistance of carbon varies under every slight variations of pressure, and that change of temperature, moisture, &c produces change of electrical pressure?

Chicago Dec 5-78

Dear Thos. A. Edison

Perhaps you have not seen this criticism of incandescent electric light. Therefore I enclose it.

Yours.

S. Medill

London Dec 7 '78
A Franc Rae
Replied Dec 15 '78

11 Tasuell Road
Kensington W.
London
7th December 1878

Dear Mr Edison,

I was very glad to receive your note & to learn that there is a chance of your coming over here next Summer. I shall be exceedingly glad if you will be my guest when you do come. My wife & myself

Yours

understand that they are ignorant of the delightful in your family books which pass through the post-office.

I expect almost some thing conclusive about your last excursion. From what I have read, I gather that the capital all right. It is a matter about which I cannot more than admit my ignorance. Rational suspicion, hence I am specially interested in the trial. Whenever you can send a work, Government Mail "Field" is the best to receive it, Meanwhile, Calculate on the Mail Steamer.

Mary will do our best to make you comfortable & feel at home.

I said, along with this note, a copy of a book "Colonialia & Canada" which may contain some things of interest to you. It is one of the few books in me which has not been republished in the United States, although I should have asked the publisher there to forward a copy to you. I hope, however, that the one now sent will be delivered & will not be confiscated by the Customs House authorities. I understand

Yours &c.

1 Dec 9-78

NY. 9th 955am

Thomas A Edison ms

Will you give Graphic facilities for describing and illustrating Electric light

W. O. Croffut

11 paid
mal9

1 Dec 9. 78

W O Croffut Graphic Office NY

Yes when I am ready

T A Edison

G. Collect
9ma

T. A. EDISON.

Menlo Park, N. J., Dec 10 1878

Jas Gordon Bennett
N Y Herald
NY

Hold me a Column
and a greater Edison

Edison Dec 10

9 Collect

5 26 9 PM

T. A. EDISON.

1101

Menlo Park, N. J., Dec 22d 1878

J W Simonton
Associated Press NY

Fine residence of Senator McPherson one mile from Menlo Park burned ten thirty PM, last night. Inmates barely escaped night clothes — Nothing saved. Two thousand dollars worth new furniture put in house yesterday. Loss between thirty five and forty thousand Insurance unknown
Cause of fire unknown. Originated in unoccupied wing

T. A. Edison

9 P Collect
Press rates

12 PM 9 Wd

house for its production abroad, but have some little difficulty in doing so definitely till we have more definite information as to the size of the volume it is likely to make.

Congratulating you on having successfully worked out the details of your invention

We are
Yours very truly
Sampson Low & Co.

N.B. Of course if the details

CROWN BUILDINGS, 188, FLEET ST.,
LONDON, E.C.

Dec: 31. 1878.

T. A. Edison Esq
Dear Sir—

We are much obliged by your letter of Dec: 18 received today. We have written to Messrs: Harper and will arrange with them for prior publication here so that we may secure copyright in England and on the continent. We will arrange with some Continental

of your inventions are
not published in the
newspapers until after
the publication of this
volume it will greatly
assist its sale.

Lorenzo Lee 78
Ft. Hill 2014 46

[December 31]

Dresden 1909
Reichstraße 2

Hochgeehrter Herr

Das Januarheft der Deutschen Revue bekomme ich mit Ihren ja überschönen Besprechungen. Da befindet sich u. a. ein Artikel über elektrische Licht Installation, in welchem auch Ihre Erfindung besprochen wird.

Schon deshalb wäre ich Ihnen hochgeehrter Herr für einen Artikel zur Publikation in der Deutschen Revue. Mit ergebenen Grüßen

Ihr

Richard Fleischer

REGISTRATURA
MAD 05 JAN 1910

6. New York 8

Thos A Edison Esq

Will you please inform Mr. E H Fox what time you will arrive in New York tomorrow and oblige

Very as he wishes to meet you

and please telegraph to his Residence one forty six West forty fifth Street -

Yours

Jas G Bennett

Jr

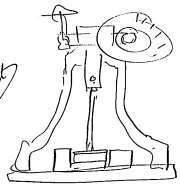
New York

Thos. A Edison

Graphs Will be out early train dont leave till they arrive

Ed Johnson

The instrument which I used at Rawlins during the solar Eclipse of July 29 1878 for the purpose of measuring the heat of the Sun's Corona was devised by me a short time only before that event and the time was insufficient to give it a thorough trial to ascertain its full capability and idiosyncrasies. This instrument I have named the Tasimeter from the Greek word τάσις pressure; metre measure; because; primarily the effect is to measure pressure of any kind. The form of instrument I used is shown in the annexed wood cut. fig. 1.



get two cuts from Prescott

Description here;

This instrument was used a Thomson's reflecting Galvanometer on a tripod having a resistance of 3/4 of an ohm; The galvanometer was placed in the bridge arm of a Wheatstone Balance; two branches had constant resistance of 10 ohms while the other two one had a constant of 3 ohms & the other contained the tasimeter which was adjusted by means of the screw to 3 ohms

when thus balanced ~~any~~ if the strip of vulcanized rubber was exposed to heat from any source it expanded placing pressure upon the carbon button thus decreasing its resistance and destroying the balance allowing a current to pass through the bridge wire ~~of the~~ causing the galvanometer the amount of current of course being proportional to the expansion of the rubber and the strength of the battery.

The instrument was only furnished two days before leaving for the west hence I was unable to test it, However upon my arrival at Rawlins I set it up but found it ~~so sensitive that~~ very difficult to balance so delicate an instrument as a reflecting galvanometer with one cell of battery ~~[illegible]~~ through such small resistances, in fact I did not succeed in balancing in the usual way until I had devised a ~~mode~~ method which I may call "fractional balancing" which at it became very easy and also allowed me to use two cells in place of a single one, This device consisted of a rheostat formed of two rows of pins about 1/2 inch apart. A wire was connected from pin ~~one~~ one row to pin on the other row and so on so that the ~~rheostat~~ current must pass through the whole length of the wire which was No 24 B&W Gage 4 feet long. This was used as a shunt around the galvanometer, a copper wire connecting all the pins of one row served to reduce the resistance to zero, when the galvanometer was thus shunted

a very feeble current passed through it. & the spot of light was not at zero it was brought thither by either increasing or decreasing the pressure upon the Volcanite of the Cassimelon by the adjusting nut, when thus brought to zero, the Copper wire of the shunt Rheostat was taken off of one pin thus increasing the resistance of the shunt perhaps to $\frac{1}{10}$ of an ohm the spot of light was gradually deflected ~~about~~ nearly off the scale ~~thus with a weak current~~ The light was again brought to zero by varying the resistance of the Cassimelon and another ½ inch of wire included in the shunt, another deflection & another balance was obtained by the Cassimelon thus by gradually increasing the delicacy of the galvanometer by increasing the resistance of the shunt & balancing at every increase the whole of the current was allowed to pass through the galvanometer & the shunt taken off. when this point was reach the dampening magnet or director was close proximity to the Case of the galvanometer. to increase its delicacy to the fullest extent it became necessary to raise the director to the top of the rod. This was done by by raising it cautiously a quarter of an inch at a time & bringing the spot of light to zero each time by the Cassimelon, It was in this condition when the eclipse occurred The Cassimelon was placed in a double tin case

with water at the temperature of the air. Galvanometer. Each case, this case was examined to a telescope of 3½ inches aperture, no eye-piece was used. The ~~rubber~~ spot of light was slowly passing towards at the moment of contact, Cold when I withdrew a thin screen and allowed the light of the luminous Corona to fall upon the rubber, the spot of light stopped ~~[illegible]~~ went gradually off the scale accelerating as it approached the end, it probably occupied perhaps 4 to 5 seconds. I slipped the screen and endeavoured to bring the light back to zero. But ~~it had gone too far~~ and I was unsuccessful, had I known that the heat was so great I should have used a platinum strip in place of the vulcanite and diminished the delicacy of the ~~apt~~ galvanometer by the approach of the damper magnet & then would doubtless have succeeded in getting two or more readings & afterwards comparing by comparison with rods of known temperature would have obtained ~~the probable~~ ~~[illegible]~~ ~~[illegible]~~ the quite. The near approach of the delicacy of the temperature of the sun's Corona,

~~Edison~~

T. A. Edison

The Sonorous or Bubble Voltameter consists of an electrolytic cell with two electrodes one in free contact with a dilute and ~~solut~~ decomposable solution and the other completely insulated by vulcanized rubber except ~~a~~ two small apertures one of which gives free access to the ~~water~~ solution of water to ~~an inner~~ the insulated electrode & the other to allow of the escape of bubbles of hydrogen as they are evolved by electrolysis, with a given current and a given resistance. We obtain a bubble each second which is seen at the moment of rise, and which at the same time gives a sound when it reaches the air, The resistance may be reduced so as to give ~~the~~ one bubble in 1 5 10 or 50 seconds or in as many hours; I have compared this instrument with the ordinary Voltameter & find it much more accurate, By the use of a very small insulated electrode and but one aperture through which ~~the~~ both the gas water & current must pass, great variation of resistance takes place between the ~~moment~~ moment when a bubble is forming & just before it rises a sounder magnet included within the battery circuit opens & closes at the period when the bubble escapes thus allowing by means of a Morse register to record the time of each bubble automatically

The operator will be found when properly made very reliable & [illegible] for [illegible]

and by substituting the Voltameter and the use of a recorder it becomes a ~~meter~~ measurer of the amount passing & that which has passed within a current from any source;

1878. Edison, T.A. - Autograph and Photograph Requests (D-78-006)

Unsolicited correspondence requesting autographs and photographs.

Not selected.

1878. Edison, T.A. - Bills and Receipts (D-78-007)

Approximately 10% of the bills and receipts in this folder have been selected. Bills and receipts for routine laboratory expenses, bills and receipts for routine personal expenses, and vouchers for railroad tickets, telegrams, and stamps have not been filmed. The vast majority of unselected bills and receipts relate to laboratory expenses. Additional bills and receipts for both laboratory and personal expenses can be found in Invoice Book, Cat. 1161 (not filmed).

See also: "Edison, T.A. - Creditors" (D-78-011).

0 601 MONTHLY STATEMENT.

New York, JAN 1 1878 187

J. T. Murray Newark

To L. G. Tillotson & Co., Dr.

P. O. Box, 1714. 8 DEY STREET.

Nov 14	To Misc. per Bill rendered. Chgd to Murray Rec.	41 58
Dec	By Cash	20 00
		21 58

Kindly remit balance
on college — L. G. T. & Co

Eulen

JC

Should your balance not correspond with above, please report at your early convenience.

Mercantile Safe Deposit Company.

EQUITABLE BUILDING, 122 & 124 BROADWAY, NEW YORK.

Thomas A. Edison

Dear Sir

The annual payment for the use of the Safe in the Vault of this Company, occupied by you, is due on the 3 day of Feb 187A

Please send, on or before the above date, check or draft to the order of the Company, for $ 15

Yours truly,

WM. H. MILLER,
PRESIDENT.

Jan 187A

Office Hours 9 to 4.

Paid

Mercantile
No. 78
Safe Deposit Co $15
15 00

Valuable Papers and Securities not already in absolutely secure places—thoroughly protected against fire and burglars—and constantly guarded, are in danger.

The Vaults of the Mercantile Safe Deposit Company are of the most substantial construction.

It is believed that there is no institution in New York where there are more safeguards, or where more precautions have been taken to reach absolute security.

The premises are constantly under guard, and are connected by telegraph with the nearest police station. The doors of the Vaults are secured by both combination and *new chronometer time locks: these last are arranged to render it impossible to open the Vaults, except during business hours, even by those knowing the combinations.*

National Banks have no power, under the law creating them, to receive valuables on deposit for safe keeping, and are not liable for losses which may occur. In the bank robberies throughout the country the heavy losses, as a rule, fall upon the owners of special deposits.

For this reason many banks having safes of their own, which may have been burglar proof when made, now rent safes of the Mercantile Safe Deposit Company, and recommend their patrons to do the same.

There are 3,700 Safes; some sufficient for the securities of large corporations, renting from $300 downwards.

Safes of any size, with any desirable number of locks, made to order to meet special requirements.

The Safes of the Company are arranged for the reception of security boxes, for the convenience of bankers, brokers, and other business men, who may remove securities and money, morning and evening, to and from the Safe Deposit Vaults without inconvenience.

Special arrangements made with country residents, or country banks and bankers.

The vaults of the ALBANY SAFE DEPOSIT COMPANY are located in the Delaware Avenue, Albany, N. Y. The Company is hundred by vault, amount of all burglar proof, and are constructed with the utmost care. The doors are secured by combination and time locks, which cannot be opened by any person, even those who are in possession of the combination. The Vaults are open from 9 to 4 daily, and are well ventilated. The office of the ALBANY SAFE DEPOSIT COMPANY are in the Equitable Building, 120 and 121 Broadway, corner of Cedar Street, New York, and are well worthy of a visit. The office is open from 9 until 4 o'clock.

The vault of the MERCANTILE SAFE DEPOSIT COMPANY is guarded by watchmen and burglar alarms. Its double doors are secured by numerous combination and key locks which cannot be unfastened by less than two persons acting in concert. As an additional and independent safeguard, time locks seal the vault at night and on Sundays and holidays. The offices of the MERCANTILE SAFE DEPOSIT COMPANY are in the EQUITABLE BUILDING, 122 and 124 Broadway, corner of Cedar Street, New York, and are well worthy of a visit. The office is open from 9 until 4 o'clock.

The vault of the MERCANTILE SAFE DEPOSIT COMPANY is guarded by watchmen and burglar alarms. Its double doors are secured by numerous combination and key locks which cannot be unfastened by less than two persons acting in concert. As an additional and independent safeguard, time locks seal the vault at night and on Sundays and holidays. The offices of the MERCANTILE SAFE DEPOSIT COMPANY are in the EQUITABLE BUILDING, 122 and 124 Broadway, corner of Cedar Street, New York, and are well worthy of a visit. The office is open from 9 until 4 o'clock.

Office Hours, 9 to 4.

Mercantile Safe Deposit Company,

EQUITABLE BUILDING,

Nos. 122 & 124 BROADWAY,

$ 15 — 3489

Received, New York, Feb 5th 1879

from Thomas A. Edison Fifteen Dollars,

for the use of a Safe in the Vault of this Company from Feb 3 1879

to Feb 3 1879, subject to the Rules and Regulations

made by the Company appertaining thereto.

W. H. Mills — President.

G. M. Keeling — Cashier.

We BUY and SELL GOVERNMENT SECURITIES at market prices, without Commission.

We pay the "bidding price" for GOLD and sell at the "Offering price" in sums to suit.

We receive DEPOSITS subject to CHECK AT SIGHT and allow INTEREST on the same.

We execute orders at the New York Stock Exchange on commission.

We buy and sell MISCELLANEOUS SECURITIES of all the issues not dealt in at the Stock Exchange.

Office of **HATCH & FOOTE,**

NO. 12 WALL ST. Feb 9 1878

SOLD T. A. Edison

6000	6	H/B	101 2/8	612	50

We BUY and SELL GOVERNMENT SECURITIES at market prices without Commission.

We pay the "bidding price" for GOLD and sell at the "Offering price" in sums to suit.

We receive DEPOSITS subject to CHECK AT SIGHT, and allow INTEREST on the same.

We execute orders at the New York Stock Exchange on commission.

We buy and sell MISCELLANEOUS SECURITIES of all the issues not dealt in at the Stock Exchange.

Office of **HATCH & FOOTE,**

NO. 12 WALL ST. Feb 22 1878

SOLD T. A. Edison

4000	6	H/B	101 3/4	4070	

736 80
4070
5 29 79

F.D.I.D. 957 MONTHLY STATEMENT.

New York, 187

T. A. Edison Esq

To L. G. Tillotson & Co., Dr.

P. O. Box, 1714. 3 DEY STREET.

Mch	17	To Mdse. per Bill rendered.	11 60
	6		53 20
Apr	8		11 60
		J. T. Murray a/c	21 58
			97 98
			20 00
			77 98

Paid May 31, 1878

L. G. Tillotson & Co

Please give with this receipt of $20 which I paid on missing Bills

Should your balance not correspond with above, please report at your early convenience.

Menlo Park N J Apr 11. 1878

Received from Thos A Edison Art & Teo by check of Chas Batchelor in full for payment of Taxes

J. W. Adair Cgt

All kinds of
PHOTOGRAPHIC WORK
DONE IN THE MOST
Artistic Manner.
COPYING AND ENLARGING PICTURES A SPECIALTY.
PICTURES
FINISHED IN
INDIA INK, CRAYON
OIL
OR
WATER COLORS.

Newark, N. J., May 8th 1878

Mr. Thos. A. Edison Dr.

To J. J. Gheegan,

PHOTOGRAPHER,

No. 782 BROAD STREET.

7 Cabinet Photos	Mrs E.	3	50	
9 " "	Martin J.	4	50	
9 " "	Miss D.	4	50	
2 Pose for tints @ 75		1	50	14 00

Memphis Tenn May 31st 1878

Mr T A Edison

To Geo W Apes Dr.

April 29	To 1½ Galons Oil 80	$1.20
"	1 qt Turpentine	.15
"	5 Pints Shellac	1.50
"	25 lbs Lead	2.37
"	2 lbs Putty	.10
"	Oiling Floor	.75
"	Shellacking Floor	.50
"	Calsomining whole house	$16.00
"	Cleaning 26 Kitts Lumber	5.00
"	Painting Stove	.50
"	Gray Oiling Dining Room	2.00
May 27	25 lbs Lead	2.50
	1 qt Varnish	1.00
	1½ Galons Oil 80	1.20
	1 qt Turpt	.15
	3 " French Ochre 12	.36
	3 lbs Burnt Umber 25	.75
	Over	$30.01

	Boot Oil	60.01
Mayo	1 ½ Salon Oil	40
"	" 12 ½ Mol Lead	1.25
"	3 ¾ Days Labor 2.00	7.50
		$39.16
Cr	By Cash	18.00
	Balance due	$21.16
Cr	By Cash	70.53
		1[illegible]

MILTON NURSERY, RAHWAY, N. J., June 5 1878

Mr. Thos. L. Gallon (Trenton)

C. B. BAUMANN,
Successor to
BOUGHT OF EUGENE A. BAUMANN'S SONS,

Landscape Gardeners, Practical Gardeners, and Nurserymen.

Plans, Specifications, and Estimates for Laying Out New Places, Country Seats, Parks, and City Lots. Speciality of **Novelties** in Ornamental **Deciduous Trees** and **Shrubs, Bedding, Herbaceous** and **Foliage Plants, Climbers,** &c. **Plants for Room** and **Table Decoration. Cut Flowers** of all descriptions. **Wreaths** and **Boquets** made to order.

May 5	5	Geranium variegated Silver & Happy Thought	1	
	1	Apple Geranium		15
	1	Fuchia		20
	12	Geranium	1	
	12	Coleus		60
	2	Horned Poppy		24
	4	Zaries		60
	2	Blue Browallia		20
	2	Heliotrope		24
	1	Spiny Bill		20
	1	Musk plant		10
	6	Asters		25
	6	Clock Lillies		25
	4	Carnations		60
	15	Egg plants		30
	30	Tomatoes		25
	4	Baskets	4	
	2	Stands H.&L. and	8	50
May 8	1	Stand large	8	
	2	Baskets	2	
				28 68

Metuchen, N. J. June 14 1878

Mr T. A. Edison

(Terms-Cash.)

To A. B. WINANS, Dr.

Stoves, Ranges, Heaters, Kerosene Lamps &c.,

Plumbing and Gas Fitting.

MAIN STREET.

May 24	To Repairing pump (100) 30 lb of castings 360	4	60
	4 Hours work repairing	1	00
	1 Mash Boiler 8.25 1 Brick Iron 50	3	75
	1 Nutting pot 40 6 qt Enamel Sauce pan	1	35
	5 qt Enamel Sauce pan 50 1 Britania tea pot	3	55
	1 Tea pot stand 25 1 steamer 50		75
	1 Ice Cream Freezer	1	50
	2 pt covers		25
	15 lb of lead pipe 10	1	50
	Rec'd Payment		$18.20
	A B Winans		

Issued on

Brooklyn, June 29 1878

Mr Edison

To BROOKLYN RIDING ACADEMY, Dr.

W. WALTER, Proprietor.

470, 472, 474 & 476 PACIFIC STREET, Between Nevins & Powers Sts.

To one Pair of Ponies & Harness Complete $350.—

Rec'd Pt.

W. Walter

M. T. A. Edison

New York, Jan 29 1878

CROSSE & BLACKWELL'S
ENGLISH PICKLES,
ENGLISH CHEESE,
French and Italian Salad Oil
Imperial Prunes,
QUEEN OLIVES.

Wm. Read,
W. H. Walsh, } Terms Cash.

Bought of W. & C. SMITH,
IMPORTERS AND JOBBERS IN
FOREIGN FRUITS,
189 Broadway, cor. Dey Street.

Bill June 20	1718	
Rec Payment W. & Chinelly Atty		
House		

Laramie City W.T. July 20. 78.

Ed. Dickinson

Bought of Louis Miller

one Winchester	35.—
250 Cartridges 44 c.f.	5.—
Gun Cover	2.—
Belt	2.—
fishing Pole	5.—
" reel	5.—
" " Basket	2.75
" " Line	2.50
" " fly Book	2.50
2 doz flies	3.—
2 hooks	1.—
	$65.75

Rec. payment
Louis Miller

Big Tree Station, August 7th 1878

Mr Geo H Barker

To MARIPOSA BIG TREE HOTEL, Dr.

To Board 1 days @	4	00
" Fare to Mariposa Grove of Big Trees	5	00
Received Payment, Washburn & Bruce	$9	00

Big Tree Station, August 7th 1878

Mr Thos A. Colson

To MARIPOSA BIG TREE HOTEL, Dr.

To Board 1 days, @	4	00
" Fare to Mariposa Grove of Big Trees	5	00
Received Payment, Washburn & Bruce per C Bruce	$9	00

Rawlins, Wyo., Augt 12 1878

M. Prof Edison

Bought of James Franco

Dealer in

General Merchandise

Aug	12	5 lbs Cart's	125	6	25
		1 Bx Cigars		14	50
		1 Quilt		2	00
		1 pr Overalls		1	25
		1 Shirt		2	00
		1 pr gloves		1	50
				27	50

Paid

J Franco

Menlo Park Sept 25 1878

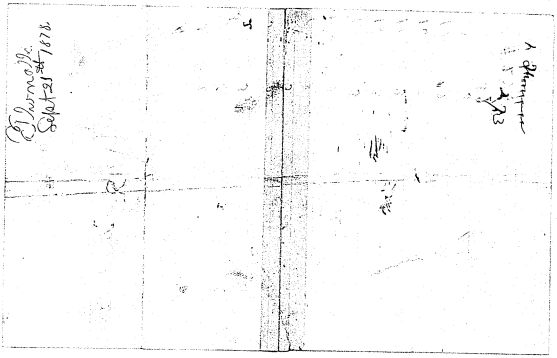
Mrs T. A. Edison Dr

To Fred Thornall

Aug	29	to	2	Melons
	31	"	6	"
Sept	2	"	3	"
	3	"	3	"
	4	"	3	"
	6	"	3	"
	10	"	2	"
	11	"	3	"
	13	"	3	"
	14	"	3	"
	16	"	3	"
	17	"	2	"
	19	"	3	"
			39	"
			7 cts	
at	$2.73			

Rec Payment Fred Thornall
Per T. J.

Paid
TAE



Sulphur

Joab Lawrence
Salt Lake City

160 Acres by S.L.S
Patent 8/20/0
20 Miles from U.P.R.R.
Near Hillyard Station

New York, September 23d 1878

Received from Mr T. A. Edison Menlo Park

Six and 87 Dollars,

in settlement of our bill of January 23d/78 to Mr. T. A. Edison

THE HARD RUBBER & CANE CO.

Oth Sardine Tags

$6.87

Wm. N. Jennings, Stationered Printer, 42 Walker St., N. Y.

12.

RARITAN TOWNSHIP,

October 1st, 1878

Mr Thomas A. Edison

Taxes are now due an I if not paid to me before the first day of December next, the 5 discounts will be returned and interest at the rate of 15 per cent. will be charged on the same, in accordance with the Law of this State.

The Commissioners of Appeal in cases of Taxation, will meet at Robins' Hall, Metuchen, on the Fourth Tuesday of November ensuing, at 10 o'clock, A. M.

ACCOMMODATION.

The subscriber will receive TAXES on or before the 30th. of November, as follows, viz: Nov. 20th. at T. Agnus, from 10 to 11 o'clock A. M., same day at the Hotel at Bonhamtown, from 1 to 3 P. M. Nov. 22, at New Durham from 10 to 11 A. M., same day at Menlo Park, from 4 to 4 P. M. Nov. 23d at Mt. Pleasant School House, from 10 to 11½ A. M., same day at Oak Tree School House, from 12 M. to 1 P. M. Nov. 25 at the Store at Stelton, from 9½ to 11½ A. M., same day at the Store at Piscataway Town, from ½ to 3 P. M. Nov. 26th. at Robins' Hall with the Commissioners of Appeal. Nov. 27th., at Moore's Hotel, New Brunswick, from ½ to 4 P. M. Nov. 29th. and 30th. at my office at Metuchen, from 8 A. M. to 12 M. and from 2 to 4 P. M.

CHARLES C. CAMPBELL, *Collector.*

REAL ESTATE.....	3000
PERSONAL PROPERTY,	3000
TOTAL,.....	6000
REDUCTION,.....	
NET,.....	

Per. Centage $1.14 per $100.
Special School Tax, extra.

Your Taxes for the year 1878 are as follows:

Poll,	$ 1.00
State,	3.60
County,	30.00
Township,	4.80
School,	11.40
Poor,	7.20
Road, 15	11.40
Special School;	
Dog,	
Amount,	$ 69.40
Less Road Receipt,	
Interest and Costs,	

Received Payment,

Chas. C. Campbell Collector.

Office of Collector, in Dawson's Store near Depot at Metuchen, N. J. Post Office Box. No. 262.

C. C. Campbell

12.

RARITAN TOWNSHIP,

October 1st, 1878

Mr. Thomas A. Edison

Taxes are now due an I if not paid to me before the first day of December next, the 5 discounts will be returned and interest at the rate of 15 per cent. will be charged on the same, in accordance with the Law of this State.

The Commissioners of Appeal in cases of Taxation, will meet at Robins' Hall, Metuchen, on the Fourth Tuesday of November ensuing, at 10 o'clock, A. M.

ACCOMMODATION.

The subscriber will receive TAXES on or before the 30th. of November, as follows, viz: Nov. 20th. at T. Agnus, from 10 to 11 o'clock A. M., same day at the Hotel at Bonhamtown, from 1 to 3 P. M. Nov. 22, at New Durham from 10 to 11 A. M., same day at Menlo Park, from 4 to 4 P. M. Nov. 23d at Mt. Pleasant School House, from 10 to 11½ A. M., same day at Oak Tree School House, from 12 M. to 1 P. M. Nov. 25 at the Store at Stelton, from 9½ to 11½ A. M., same day at the Store at Piscataway Town, from ½ to 3 P. M. Nov. 26th. at Robins' Hall with the Commissioners of Appeal. Nov. 27th., at Moore's Hotel, New Brunswick, from ½ to 4 P. M. Nov. 29th. and 30th. at my office at Metuchen, from 8 A. M. to 12 M. and from 2 to 4 P. M.

CHARLES C. CAMPBELL, *Collector.*

REAL ESTATE.....	1500
PERSONAL PROPERTY,	
TOTAL,.....	
REDUCTION,.....	
NET,.....	

Per. Centage $1.14 per $100.
Special School Tax, extra.

Your Taxes for the year 1878 are as follows:

Poll,	$
State,	90
County,	7.50
Township,	1.20
School,	2.85
Poor,	1.80
Road, 15	2.85
Special School,	
Dog,	
Amount,	$ 17.10
Less Road Receipt,	
Interest and Costs,	

Received Payment,

Chas. C. Campbell Collector.

Office of Collector, in Dawson's Store near Depot at Metuchen, N. J. Post Office Box. No. 262.

Metuchen N J Oct 5 1878

Mr. Edison Bought of

P. P. WHITTIER,

DEALER IN CHOICE

Beef, Mutton, Veal, Lamb, Pork & Sausage.

ALSO POULTRY AND GAME IN SEASON.

Main Street, next door to the Post Office.

Amount of bill to date 99 43

Oct 14 40

59 43

Rec'd payment

Received from Thomas A Edison

Forty Dollars,

on account of bill for meat

$ 40 P P Whittier

M A Anderson

Menlo Park, Octo 24 1878

Mr T A Edison

Bought of D. DAVIES,

DEALER IN

Terms Cash. Groceries & Provisions, Flour, Feed &c.

	Balance		43 17
Nov	12. 1878. Edison Recd	25 00	
	Bal Nov 12 78		18 17
	Balance		18 17

Received Payment,

D Davies

MANUFACTURERS OF
AND DEALERS IN
FURNITURE
OF EVERY DESCRIPTION.
BACON & KARR,
AND OTHER FIRST CLASS
PIANOS AND ORGANS,
PIER & MANTLE GLASSES,
CORNICES AND LAMBREQUINS.
OIL CLOTHS,
WINDOW SHADES, HOLLAND, ETC.

TERMS CASH.

ALL REPAIRED WORK CASH ON DELIVERY.

NEWARK, N. J. Oct 30 1878

Mr. L. A. Edison

Bought of **Kuhne & Edge,**

No. 797 BROAD STREET,
Five doors below Market Street.

Sept 17	1 Chamber Suite	166	25 —
	1 — 40 Lb Hair Mattress	28	
	1 Spring Bed	9	
	1 Hair Pillow	3	
	1 Count cloth	9	
	2 Rugs 2.75 —	5	50
		$ 220	75 —

Received Payment
Kuhne & Edge

Metuchen, N. J. Nov. 4th 1878.

Mr. L. A. Edison

To C. H. ANDRUS, M. D. Dr.

For Professional Services from ..... to date.

..... Visits, - - - - - - -
Office Prescriptions, - - - - - - - $ 8.40
Medicines, - - - - - - -

Received Payment,

C. H. Andrus

MARBLE & GRANITE
OF EVERY DESCRIPTION,
For BUILDINGS, VAULTS, &c.
Polished and cut if required.
MANUFACTURER OF AND DEALER IN EVERY VARIETY OF
Mantels, Monuments,
AND GRAVE STONES,
In Marble, Scotch Granite and Clean Stone.
FONTS, ALTARS,
Job Interior Decorations cut to order.
CEMETERY LOTS ENCLOSED at short notice.
☞ Designs and Estimates cheerfully furnished on application.

Newark, N. J., Nov 4 1878

Mr T. A. Edison

Bought of **Joseph J. Spurr,**

STEAM MARBLE & STONE WORKS.

TERMS, CASH. 253, 255 MARKET STREET.

April 17	To one marble mantle		$14	00
	Rec'd Payment			
	J. J. Spurr per			
	E.K.S.			

Received from Thomas A. Edison

December 2. 1878

Twenty five Dollars,

on account of Royalty

$ 25.00 Mrs Adams

Nov 28 - 1878

Rec. Turkey 11 lbs 16¢ $1.76

E. W. Moffett

New York, Dec 7 1878.

Thos A. Edison

Menlo Park N. J.

DREXEL, MORGAN & CO.

WALL & BROAD STREETS.

5000	Cooper 4s	@ 100 7/8	5	15	125
	Entered in Check book			

Dec 15th 1848

Mr Edison Pay to Mr Batchelor my money for Dec 10th to Dec 30th 1848 and oblige

$50 00/100 Mrs Jas Adams Paid $25 Dec 4

New York, _____ 187

To Edison's Electrical Pen & Engraving Press Co. Dr.

MANUFACTORY:
MENLO PARK, N. J.

LUDLOW STREET.
P. O. Box 3207.

Mrs Allen
Receipt for
Jan 11 and 16th
$ 8.00
Mr. [illegible] Jack
[illegible]

875

New York, 187

Mr. T. A. Edison

Bought of Park & Tilford,

118, 120 & 122 Sixth Avenue.

Dec	17	1 Q. Calif. Grapes	4 00	
		1 " Rich East Gill Pineapples	4 75	
		2 Cuts C. Jelly	90	
		2 " Grapes	50	
		2 Pkt do	2 00	
		1 Q. Oranges	50	
		1 do	60	
		3 Pkt Almonds	1 65	
		1 Q. Pears	1 00	
		1 Q. Lemons	25	
		2 Crem Nuts	25	
		2 E. Walnuts 16	32	
		3 E. Pecans 90	4 50	
				$21 21

Paid by check Jany 6th 79

1878. Edison, T.A. - Bills of Lading (D-78-008)

Bills of lading.

Not selected.

1878. Edison, T.A. - Book and Journal Orders (D-78-009)

Correspondence, some by Edison; bills, orders.

All selected.

Daily and Weekly Papers

Delivered in the City or sent to any part of the Country.

Magazines and Periodicals

Supplied as soon as Published.

Newark, N. J., Jan 5th 1878

Mr T. A. Edison (Geo W Benches successor

To H. M. Wildman, Dr.

DEALER IN

Newspapers, Periodicals and Stationery,

257 MARKET STREET,

Cor. MULBERRY.

To Amt of Bill Rendered		
" February 1 1878		78.21
Received Bdelsheimers Check for same		78.21
		0.00

Geo W Benches

per H M Wildman

TERMS OF THE TRIBUNE.

Daily, $10; Weekly, $2; Semi-Weekly, $3.

ADVERTISING RATES.

DAILY TRIBUNE.

Ordinary advertisements, classified under appropriate heads, 30 cts. per line each insertion.

Leaded and Displayed Advertisements charged solid space.

Fancy Type and Cuts, double rates for space occupied.

Business Notices—Fourth page 60 cts. a line.

Special Notices—Fifth page—40 cts. a line.

Fifth page—before Marriages, agate type, $1 a line.

Advertisements on Eighth page 40 cts. a line.

(Announcement)—City News Column—60 cts. a line, agate space.

About eight words average a line, after the first line, which usually contains only four or five words.

Deaths and Marriages, $1.

WEEKLY TRIBUNE.

Ordinary Advertising—$1 a line each insertion.

Item (Announcement)—following Marriages and Deaths—$2 a line each insertion.

Fifth page—before Marriages—$3 a line.

SEMI-WEEKLY TRIBUNE.

Ordinary Advertising—25 cts. a line each insertion.

Item (Announcement)—50 cts. a line each insertion.

TERMS CASH IN ADVANCE.

Address

THE TRIBUNE, New-York.

New-York, Jun 27 1878

M T. A Edison

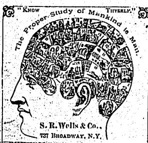
To New-York Tribune. Dr.

187 ~~For Advertising,~~

	LINES.	TIMES.	RATE.	AMOUNT.
200 Daily				
@ 4c/-				8.00

Received Payment, [signature]

For The Tribune Association.



PHRENOLOGISTS & PUBLISHERS.

PROFESSIONAL EXAMINATIONS, with Charts and Written Descriptions of Character given when desired

S. R. WELLS & Co have all works on Phrenology, Physiology, Phonography, and Hydropathy.

Address all Business Communications to S. R. WELLS & Co.

New York, Feby 1st 1878

M Thomas A. Edison

Metuchen N.J.

Bought of S. R. WELLS & CO.,

Phrenologists and Publishers,

737 BROADWAY.

Wareg Ex

COD $5.00 & charges

40	P.J. for Feby 1878	12½	$5.
			.25
	Return Money		.25
	Rec'd Payt		5.50

Paid by Batchelor

S. R. Wells & Co

Daily and Weekly Papers

DELIVERED IN THE CITY OR SENT TO ANY PART OF THE COUNTRY.

Magazines and Periodicals

SUPPLIED AS SOON AS PUBLISHED.

Newark, N. J. Feb. 1st 1870

Mr. T. A. Edison Menlo Park

Successor to **H. M. Wildman, Jr.**

DEALER IN

Newspapers, Periodicals and Stationery,

287 MARKET STREET

Cor. MULBERRY.

		To Bill Outstand Jan 1st	67	46		
Jan	4	Harpers Weekly		10		
	"	Bazar		10		
	"	Scientific American		8		
		Supplement		10		
	"	Weekly Magazine		15		
		New York Weekly		6		
		Iron		30		
		English Mechanic		15		
		Echo		15		
		Chemical News		20		
		Druggist Circular		20		
		Hoffmans Journal of Chemistry		55		
		Popular Monthly		25		
		Chemical Supplement		25		
"	11	Harpers Weekly		10		
		Bazar		10		
		Weekly Magazine		15		
		New York Weekly		6		
		Scientific American		8		
		Supplement		10		
		Iron		30		
		English Mechanic		15		
		Echo		15		
		Chemical News		20		
		Manufacturer & Builder		20		
		Philadelphia Photographer		50		
		Boston Jour of Chemistry		10	72	28

Mr. Edison

Jan		Brought Forward	72	29		
"	19	Harpers Weekly		10		
		Bazar		10		
		Scientific American		8		
		Supplement		10		
		New York Weekly		6		
		Hearth Magazine		15		
		Front		30		
		Nature		15		
		English Mechanic		15		
		Chemical News		20		
		Popular Science Monthly		30		
		Monthly		25		
		Philosophical Magazine	1	50		
		Scientific News		4		
	25	Harpers Weekly		10		
		Bazar		10		
		Scientific American		8		
		Supplement		10		
		New York Weekly		6		
		Hearth Magazine		15		
	26	Front		30		
		Nature		15		
		English Mechanic		15		
		Chemical News		20		
	31	Newark Daily Advertiser		83	478	21

Paid Feb 4

Williams - Plum
Feb 13, 1878

WILLIAMS & PLUM,

PUBLISHERS OF NEW JERSEY LAW REPORTS. — BOOKSELLERS. — PUBLISHERS OF ALMANACS AND CALENDARS.

STATIONERS, STEAM PRINTERS, BOOK BINDERS.

Lithographing — 777 BROAD ST. — Card Engraving.

Newark, N.J., Feby 13 1878

Mr. T. A. Edison.

Dear Sir.

We mailed a day or two ago a Case containing a lot of Miscellaneous Mag, &c., what style or style of binding shall we bind them in, they are all tied up as we sent them, some as far as we can see by the outside are complete, some imperfect, and some consist of odd nos. see the sides for memoranda of what we have mailed you.

Yours Respy
Williams & Plum

will send the Bill & Email by tomorrow or next day,

2 vols.	Popular Science Monthly	5 nos in each vol.		incomplete
1 "	" " "	(Sept. & Oct. nos. 2.3.4.5.6.8.9 — (7 nos.)		"
2 "	Journal of the Chemical Society	6 nos. each after the 2 vols, are paged as if the Journal in 1 vol. you have then till 1875, as if the Journal in 2 vols.		complete
3 "	Statistics of Mining & Mining for 1873. 74 - 75.			
2 "	American Journal of Science and Arts.		7 nos. 6 "	— complete.
2 "	Journal of the Society of Telegraph Engineers		5 " 4 "	incomplete.
3 "	The London, Edinburgh & Dublin Philosophical Mag. & Journal of Science		7 nos. 6 "	complete.
1 "	The Journal of the Franklin Institute		6 "	"
1 "	The Philadelphia Photographer		6 "	"
1 "	Annual Report of Commissioner of Patents 1876.			"
1 "	Knight's American Mechanical Dictionary		10 nos.	incomplete
1 "	Circle of the Sciences — Nos 51 & 70 both incl.		20 "	"
1 "	Official Gazette of U. S. Patent Office,		26 "	complete.
5 "	Specifications of Patents;			
4 "	Descriptive Index of Patents			
7 "	Miscellaneous Catalogues &c &c			
4 "	Law Cases on Patents;			
18 "	Chronological & descriptive Index of Patents, have not entered the gifts to incl. perfect or not.			
59 vols				

PUBLISHERS OF
NEW JERSEY LAW REPORTS,
ALMANAC AND CALENDAR.

WILLIAMS & PLUM,
BOOKSELLERS,
STATIONERS, STEAM PRINTERS, BOOK BINDERS,
FIRST CLASS BLANK BOOK MANUFACTURERS,
777 BROAD STREET,

LEGAL BINDERS
AND
CONVEYANCERS.

Williams & Plum
Dec 22-78

Newark, N.J., Feby 26 1878

Mr. T. A. Edison.

Dear Sir -

In binding the several vols of Catalogues, Miscellaneous & Law Cases, had we better "mounted" them with all the covers on, if not, you could not tell what the matter related to, handy, the cover tells the story and answers for a title page - there are several vols of Patent Office "Specifications", most of the vols arranged thus 1861. 60. 59 & 58, making the dates in all running backwards, instead of forwards thus 1858. 9. 60. 61, thus some vols have parts of say 1861 - 1 vol one of 1862 in another, don't you want to all of each year together in 1 vol, and the years to commence and run

regular, as when bound they all seem regular the contents you find and see on sep.

Yrs
Jno. Rafety
William Pearce.

begin with any particular work bound in any particular style; in all instances state

1st Blue boards & paper sides, is the cheapest style we bind in. this is plain & strong.

Take for Instance 1 vol of Gent. Mag. bound in 1st Blue boards & paper This 1.13 p vol.

1st a	& calf sides	1.25 "
1st Ruby & paper		1.38 "
1st a	& calf	1.50 "

the large sizes of Mag &c. vary according to size, binding & the lettering; those with calf & Plates take long time, more work, often have to be refolded over, or cut & cut them when the edges are trimmed.

Menlo Park Feby 28th/78

Mr. Thos A Edison Dr

Thos Leahy Cr

To Daily Sun and Fortune and Sunday Sun
from Jan 9th to Feby 28th — 3.71
To from Mch 1st to Mch 31st advance 2.33
6.04

Mch
26 - Daily 28d 7.8
" Sundays 2 wks 20
26 Daily 2 wks 1.30
$2.30

Received Payment Mar. 12
Thomas Leahy Jr

BERNARD QUARITCH, BOOKSELLER, CENTRAL AGENCY for the procuring of Rare Books.

Mr. Quaritch's STOCK *consists of about 20,000 well selected* WORKS;—*Orders for many of the better class of Standard Literature can therefore be executed at once. Book-buyers are solicited to pay regular visits to his establishment as* NEW PURCHASES *are added daily.* LIBRARIES PURCHASED *at their maximum market value for Cash.*

LONDON, 15 PICCADILLY, W. March 11 1878.

T. A. Edison Esqre
Menlo Park.
N. Jersey
U. S. A.

Philosophical Magazine, complete from the begining in 1798 – 1862:- 138 volumes in 123, 8vo. calf and half calf £50.

—— the same. 1863 – 1877, 30 vols. £20.

(Calls £21. 7. 0.)

Bayerdorfs Annalen – There not got is dark. I forward to you my Catalogues of Scientific Works and periodicals, and I hope you will favor me with an order.

I remain, Sir,
Your obedient servant
Bernard Quaritch

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

Address all Business Communications to S. R. WELLS & Co.

New York, March 29 1878

Mr J A Edison Menlo Park N.J.

Bought of S. R. WELLS & CO.,

Phrenologists and Publishers,

787 BROADWAY.

Ex

25 Phs for Feby, 78 net 12½ 2/3

WEEKLY STATEMENT.

NEW YORK, April 1878

M Thos Leavy

IN ACCOUNT WITH

The New York News Company,

No. 18 BEEKMAN STREET.

	To Balance,	
	" Sundries,	
April 6	2 Other 5 2 Dey 7 3 Sun 5	17
" 8	2 Other 5 2 Dy 7 3 Sun 5	17
" 9	1 Other 4 1 Sunday 5 2 3 Sun 5 2 Her 5 2 Dy 7 3 Sun 5	30
" 10	2 Other 5 2 Dey 7 3 Sun 5	17
" 11	2 Other 5 2 Dey 7 3 Sun 5	17
" 12	2 Other 5 2 Dy 7 3 Sun 5	17

Washington, D. C., 187

Mr T. A. Edison Menlo Park N.J.

To THE WASHINGTON POST, Dr.

1878. For Daily Post as follows: $

From April 17, 1878 to June 2, 1878 — 1 00

Received Payment for Co. E. S. Pitcher

Menlo Park - Apr 30th/78

Mr T. A. Edison in

Account Leavy Co

To Daily Sunday Press and Sunday Sun from Apr 1st to Apr 30th — 2.25

Rec'd Pay't

Thos Leavy

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

Daily and Weekly Papers
Delivered in the City or sent to any part of the Country.
Magazines and Periodicals
Supplied as soon as Published.

Newark, N. J., May 1st 1878

Mr. T. A. Edison Gen. W. Carnha

Successor to **H. M. Wildman, Jr.**

DEALER IN

Newspapers, Periodicals and Stationery,

237 MARKET STREET.

April	1st	To Bill Credited		37	07	
"	3	" Harpers Weekly			10	
"	"	" N. Y. Weekly			6	
"	"	" Pen			30	
"	"	" Nature			15	
"	"	" Chemical News			30	
"	"	" English Mechanic			15	
"	"	" Druggist Circular			20	
"	"	" Ottmans Fair of Science			55	
"	"	" Crop Volume		1	17	
"	5	" Harpers Bazar			10	
"	"	" Scientific American Supplement			8	
"	"	" Popular Magazine			15	
"	12	" Harpers Weekly			10	
"	"	" Bazar			10	
"	"	" Scientific American Supplement			8	
"	"	" N. Y. Weekly			10	
"	"	" Harpers Magazine			15	
"	"	" Pen			30	
"	"	" Nature			15	
"	"	" Chemical News			30	
"	"	" English Mechanic & Builder			30	
"	"	" Scientific News			4	
"	"	" Manufacturer & Builder			50	
"	"	" Philadelphia Photographer			50	
"	15	" Belmont Magazine			35	
"	"	" Harpers Weekly			10	
"	"	" N. Y. Weekly			10	
"	19	" Harpers Bazar			10	
"	"	" Popular Magazine			15	
"	"	" Scientific American Supplement			10	
"	"	" Pen			30	
"	"	" Nature			15	
"	"	" Chemical News			30	
"	"	" English Mechanic			15	44 30

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

		Brought Forward	44	30	
April	18	Popular Science		50	
"	"	Monthly		20	
"	26	N.Y. Weekly		6	
"	"	Harpers Weekly		10	
"	"	Bazar		10	
"	"	Scientific American		8	
"	"	Supplement		10	
"	"	Harpers Magazine		15	
"	"	Prod		30	
"	"	English Mechanic		15	
"	"	Nature		15	
"	"	Chemical News		20	
"	"	Graphic News		4	
"	"	Nizzera Magazine		15	
"	"	Philosophical Magazine	1	50	
"	30	N.Y. Weekly		6	
"	"	Police News		10	
"	"	N.Y. Graphic		5	
"	"	Popular Science Supplement		25	
"	"	Newark Daily Advertiser		85	
		Amer. Nice Mag. 1.00			49 44
					49 44

4944
3707
1237

H M Wildman $1237 to be charged

Paper & Bookl Office May 1

Chas MC

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

BOOKS IMPORTED TO ORDER FROM EUROPE, AND FOR PUBLIC INSTITUTIONS, FREE OF DUTY.

New York, May 7 188

M. T. A. Edison

Bought of D. VAN NOSTRAND,

Bookseller, Publisher and Importer,

OF SCIENTIFIC, MINING, ENGINEERING, MILITARY AND NAVAL BOOKS,

23 Murray & 27 Warren Streets,

Register

Salesman

Folio

TERMS CASH.

UP STAIRS.

1	Silliman's Journal July 1867	1	00	
	By mail			
	Boyce Ornithological Soc'ty in advance			

OFFICE OF THE

Scientific American,

MUNN & CO., Editors and Proprietors.

No. 37 Park Row,

O. D. MUNN,
A. E. BEACH.

New York, May 4 1878

Dear Sir,

We send you by mail a copy of our Patent Book. If you decide to have any drawings made, please be careful to give us a full description of the invention, by a word sign of art. And we prefer. We will then give you our estimate of the work.

We send you a copy of the Scientific American, as we recommend it, and know it will be worth your while to be a regular subscriber for it. Any year Drawings found by us.

Hoping to hear from you

Munn & Co.

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

BOOKS IMPORTED TO ORDER FROM EUROPE, AND FOR PUBLIC INSTITUTIONS, FREE OF DUTY.

New York, March 7 1878

M Edison

Register 3211

Salesman

Folio

Bought of D. VAN NOSTRAND,

Bookseller, Publisher and Importer,

OF SCIENTIFIC, MINING, ENGINEERING, MILITARY AND NAVAL BOOKS,

23 Murray & 27 Warren Streets,

TERMS CASH.

UP STAIRS.

1	Hoswell's Pkt Bk	3 00	
	By mail,		

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

Daily and Weekly Papers
Delivered in the City or sent to any part of the Country.

Magazines and Periodicals
Supplied as soon as Published.

Newark, N. J., June 1st 1878

Mr. J. A. Odlum (Gt. Con Mass)
Sumner

To H. M. Wildman, Dr.
DEALER IN
Newspapers, Periodicals and Stationery,
287 MARKET STREET,
Cor. MULBERRY.

May	1	To Gaslight Contrast		48	44	
"	3	" Iron			30	
"	"	" English Mechanic			15	
"	"	" Nature			15	
"	"	" Chemical News			20	
"	"	" Philadelphia Photographer			50	
"	"	" Tillman's Journal of Science			55	
"	"	" Hardwick's Chemistry			20	
"	"	" Harper's Weekly			10	
"	"	" Sazar & Hawaii Mag			15	
"	"	" Scientific American			8	
"	"	" Supplement			10	
"	8	" Frank N. Y. Weekly			12	
"	"	" Harper's Weekly			10	
"	10	" Sazar			10	
"	"	" Harper's Magazine			15	
"	"	" Scientific American			8	
"	"	" Supplement			10	
"	"	" Iron			30	
"	"	" English Mechanic			15	
"	"	" Nature			15	
"	"	" Chemical News			20	
"	17	" Harper's Weekly			10	
"	"	" Sazar			10	
"	"	" Scientific American			8	
"	"	" Supplements			10	
"	"	" Gaslight			6	
"	"	" Harper's Magazine			15	
"	"	" Chemical News			20	
"	"	" Nature Double			30	
"	"	" English Mechanic			15	
"	"	" Iron			30	
"	"	" Scientific News			4	
"	22	" Popular Monthly			45	
"	"	" Science Monthly			50	
"	"	" Harper's Magazine			15	
"	"	" Manufacturer & Builder			20	
"	"	" Dimitrost Magazine			25	56 40

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			Brought Forward		$56.40
May	24	90	Box of Writing Paper	45	
"	"	"	Chest of Water Colors	10	
"	"	"	Box of Blocks	90	
"	"	"	Pen	30	
"	"	"	Pencil	30	
"	"	"	Chemical News	80	
"	"	"	Harpers Weekly	10	
"	"	"	Bazar	10	
"	"	"	Scientific American	8	
"	"	"	Supplement	10	
"	"	"	Book Weekly	6	
"	"	"	Fairy Magazine	15	
"	"	"	Philosophical Magazine	1 50	
"	31	"	English Mechanic	15	
"	"	"	Chemical News	80	
"	"	"	Pencil	30	
"	"	"	Pen	30	
"	"	"	Scientific News	4	8
"	"	"	American		
"	"	"	Supplement	10	
"	"	"	Harpers Weekly	10	
"	"	"	Bazar	10	
"	"	"	Fairy Magazine	15	
"	"	"	Book Weekly	6	
"	"	"	Newark Daily Advertiser	85	
					6 77
					$63 77
					49 44
					13 73
			H M Aldrman		
			Book Account	13 73	

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June	1	To Bill Hardware	63	15		
"	1	" Chemical News		20		
"	"	" English Mechanic		15		
"	"	" Bazar		30		
"	"	" Nature		30		
"	"	" Weekly Magazine		15		
"	"	" Harper's Weekly		10		
"	"	" Bazar		10		
"	"	" Scientific American		8		
"	"	" " Supplement		10		
"	"	" N. Y. Weekly		6		
"	"	" Rolfe's Circular		20		
"	"	" Pettman's Journal of Chemistry		35		
"	"	" Philadelphia Photographer		50		
"	"	" Scientific American Supplement		35		
"	14	" Harper's Weekly		10		
"	"	" Bazar		10		
"	"	" Scientific American		8		
"	"	" " Supplement		10		
"	"	" Weekly Magazine		15		
"	"	" New York Weekly		6		
"	"	" Scientific News		4		
"	21	" Bazar		30		
"	"	" Nature		30		
"	"	" Chemical News		20		
"	"	" English Mechanic		15		
"	15	" Illustrated Magazine		25		
"	"	" Manufacturer & Builder		20		
"	21	" New York Weekly		6		
"	"	" Harper's Weekly		10		
"	"	" Bazar		10		
"	"	" Weekly Magazine		15		
"	"	" English Mechanic		15		
"	"	" Nature		30		
"	"	" Bazar		30		
"	"	" Chemical News		20		
"	"	" American Machinist		8		
"	"	" Popular Monthly		25	69	93

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			Amt Brought Forward		69	93
June 21	To		Puzzy Magazine	15		
"	"	"	Gazette Illustrée Frontispiece	30		
"	"	"	Scientific American	8		
"	"	"	Supplement	10		
"	"	"	Philosophical Magazine	1 55		
" 23	"		Dept of Oregon	4 00		
" 28	"		Harpers Weekly	10		
"	"	"	Bazar	10		
"	"	"	Scientific American	8		
"	"	"	Supplement	10		
"	"	"	New York Ledger	6		
"	"	"	Harpers Magazine	15		
"	"	"	Peck	30		
"	"	"	Saturn	90		
"	"	"	Chemical News	90		
"	"	"	English Mechanic	15		
"	"	"	Scientific News	4		
Aug 7			Advertising from June 1st to July 1st	85		
"	"		1 doz Flags 3 ft long	2 25		
"	"		2 " " 1 ft "	1 25		
"	"		1 Bunting Flag 7 ft	7 75		
			10 lbs of Crackers @ 6¢	60		
			1 Case of Port Jonesville Tomatoes Retail Price Cost $2.04 less 25%	15 70		
			3 Boxes of Colored Fire	1 00	37	16
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Moreover the party may have been that furnished us with your list of papers, who distinctly told that it was necessary to import them and this he directed us to do.

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July	1st	To	65 ill of mineral	116	44	
	5	"	Scientific American		8	
			Supplement		10	
"	"	"	Harper's Weekly		10	
			Bazar		10	
	"	"	New York Weekly		6	
	"	"	Fortnightly Magazine		15	
	"	"	English Mechanic		10	
	"	"	Chemical News		20	
	"	"	Nature		30	
	"	"	Iron		30	
	"	"	Gillmans Form of Glucose		55	
	"	"	Popular Science Supplement		25	
	"	"	Druggist Circular		20	
	12	"	Harper's Weekly		10	
			Bazar		10	
	"	"	Scientific American		8	
			Supplement		10	
	"	"	Fortnightly Magazine		15	
	"	"	New York Weekly		6	
	"	"	Nature "		30	
	"	"	Iron		30	
	"	"	English Mechanic		15	
	"	"	Chemical News		20	
	"	"	Scientific News		4	
	"	"	Manufacturer & Builder		20	
	"	"	Philadelphia Photographer		50	
	19	"	Harper's Weekly		10	
			Bazar		10	
	"	"	Scientific American		10	
			Supplement		10	
	"	"	New York Weekly		6	
	"	"	Fortnightly Magazine		15	
	"	"	Nature		30	
	"	"	English Mechanic		15	
	"	"	Chemical News		20	
	"	"	Iron		30	
	"	"	American Machinist		8	123 15

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		Brought Forward		193	15
July	19	Popular Monthly	25		
"	"	St. Nicholas Magazine	25		
"	26	Harpers Weekly	10		
"	"	" Bazar	10		
"	"	" Scientific American	8		
"	"	" " Supplement	10		
"	"	" New York Weekly	6		
"	"	" Society Magazine	15		
"	"	" Sporting News	4		
"	"	" Chemical News	40		
"	"	" English Mechanic	15		
"	"	" Nature	30		
"	"	" "	30		
"	"	" Popular Science Monthly	50		
"	"	" Surgery Magazine	15		
"	"	" Philosophical Magazine	1 50		
"	31	" 2 Pieces of Shirt Bosom @ 30¢	60		
"	"	" 1 " " " @ 40¢	40		
"	"	" 5 " " " @ 35¢	1 75		
"	"	" Rework Hair, Albertson	85		
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Leo Friedman
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[BILL FROM GEORGE W. VAN NESS] [SEPTEMBER 1, 1878]

		Dug on Bill Rendered Aug 1st	191	28	
Aug	2nd	Harpers Weekly		10	
		Saxar		10	
	"	Sci American		8	
		Supplement		10	
	"	New York Weekly		6	
		Popular Magazine		15	
		Prose		30	
		Nature		50	
		English Mechanic		15	
		Chemical News (Double)		20	
		Gillemans Journal of Science		03	
		Dugg on Receiver		20	
		Popular Science Supplement		25	
	9	Harpers Weekly		10	
		Saxar		10	
		Scientific American		8	
		Supplement		10	
		New York Weekly		6	
		Popular Magazine		15	
		Prose		30	
		Nature		50	
		Chemical News		40	
		English Mechanic		15	
		Philadelphia Photographer		50	
		Money Maker & Bulletin		20	
	16	Harpers Weekly		10	
		Saxar		10	
		Scientific American		8	
		Supplement		10	
		Popular Magazine		15	
		Chemical News		20	
		Nature		50	
		Prose		30	
		English Mechanic		15	
		Scientific News		4	
		Scientific Music Library		10	
		Popular Weekly		25	38

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		Brought Forward		138	12
Aug	16	Ram's Horn Magazine	25		
"	20	Women's Home Library	10		
		New York Weekly	6		
		Spectator Magazine	8		
		Philosophical Magazine	1 50		
		Nursery Magazine	15		
"	23	Harpers Weekly	10		
		Bazar	10		
		Scientific American	8		
		Supplement	10		
		Travel Magazine	15		
		English Mechanic	15		
		Feline	90		
		Iron	90		
		Chemical News	90		
"	30	Harpers Weekly	10		
		Bazar	10		
		Scientific American	8		
		Supplement	10		
		Travel Magazine	15		
		New York Weekly	6		
		Feline	90		
		Iron	90		
		English Mechanic	15		
		Chemical News	90		
		Scientific News	4		
		Daily American	85	6	05
				144	17
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Credit		by Chas Ratcliffe Check of Aug 30th		75	00
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Moniteur Scientifique (Quesneville) Paris	8 00
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☞ Orders received for Book-Binding, Printing and Engraving. ✱ NOT RESPONSIBLE FOR GOODS SENT BY MAIL.

July 23	Engineer - Engineering. Postage & Return	8 2	
Aug 7	Engineer - Engineering Return & Engineering	1 12	
"	" " " " " Ship	22 X	
14	Engineering Engineering Engineering + Postage	6	
	Return Engineering July 27 to Aug 3 & Postage	2 12	
	Postage for 3 Clocks engraving		
30	4 Engineering News, 1 Telegraphic Journal		
	3 Chemical News, 3 Engineering & Mechanics Journal	4 05	
	1 Engineer for Dec. Postage for Robbs	30	15 20
Sept 6	2 Blue Books July & Aug 15, Postage		

JASON STAKER, Pres'
EDGE M. BARTON, Secr

Office of
Western Electric Manufacturing Co.

GEORGE H. ULISS, Gen. Agt
ELISHA GRAY, Electrician

220 to 232 Kinzie Street. Chicago.

SEPT. 28, 1878

T.A.EDISON ESQ.
MENLO PARK
N.J.

DEAR SIR:---

IN REPLY TO YOURS OF THE 26-TH INST WE HAVE TO SAY THAT WE ARE RECEIVING THE ''ELECTRICIAN '' REGULARLY.

WE GET THE PAPER THROUGH A LONDON AGENT, ONE OF WHOSE CIRCULARS WE INCLOSE FOR YOUR INFORMATION.

YOURS TRULY,

Edge M. Barton

SEC'Y

INCLOSURE

New York, Sept. 30.
237 Broadway,
Room 18.

Prof. Edison —

I have just published a work on Sound which aims and claims to overthrow the current wave theory, and to establish the corpuscular hypothesis in its stead. The author also reviews the Telephone and Phonograph and claims to reconcile their phenomena to his corpuscular view. I think you would be interested in this novel and revolutionary production. If I knew where you would be over in the city, and where I could meet you I would take

Rec'd Oct 5th 78.

Pleasure in presenting you a copy; or if convenient in passing along by the post office call at my office and get a copy.

I am intensely, almost wildly interested in your startling experiments and discoveries and so is Willard the author of this volume "The Evolution of Sound." Wishing you that success which your achievements and services deserve.

I am very truly yours
A. W. Hall
of Hall & Co
Publishers.

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

[BILL FROM GEORGE W. VAN NESS] [OCTOBER 1, 1878]

		To Bal of Bill Rendered Sept 1st	69	17		
Sept	6	To Scientific American		8		
		" " Supplement		10		
		" Harpers Weekly		10		
		" " Bazar		10		
		" Harpers Illustrated Library		10		
		" Chemical News		20		
		" English Mechanic		15		
		" Iron		30		
		" Nature		30		
		" New York Weekly		6		
		" Hovenden Magazine		15		
		" Druggist Circular		20		
		" Williams Jour of Science		25		
		" Popular Science Supplement		25		
		" " Monthly		50		
		" Philadelphia Photographer		50		
		" Box of Printing Paper		75		
		" " "		30		
"	13	" Harpers Weekly		10		
		" " Bazar		10		
		" Scientific American		8		
		" " Supplement		10		
		" Hovenden Magazine		15		
		" New York Weekly		6		
		" Nature		30		
		" Iron		30		
		" Chemical News		20		
		" English Mechanic		15		
		" Scientific News		4		
"	14	" Box of Steel Pens	1	50		
"		" Gribbles Sheets of Micro Pictures	1	43		
"	17	" Manufacturer & Builder		20		
		" Dembert Monthly		25		
		" Popular		25		
		" Hoyt & Fern		15		
		" Port Folio		15	79	37

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

		Brought Forward		79	37
Sept	17	Oc. Harper's Musical Library	10		
		" Little Auntie Magazine	20		
		" St Nicholas	25		
		" Monthly Reader	5		
"	20	" Harper's Weekly	10		
		" Bazar	10		
		" Scientific American	8		
		" Supplement	10		
		" ~~Eng. Mech. Magazine~~			
		" Hearth Magazine	15		
		" Byron	30		
		" Balzac	30		
		" English Mechanic	15		
		" Chemical News	20		
"	27	" Harper's Weekly	10		
		" Bazar	10		
		" Fun Judge Weekly	10		
		" Scientific American	8		
		" Supplement	10		
		" Heavens Magazine	15		
		" Byron	30		
		" Balzac	30		
		" English Mechanic	15		
		" Chemical News	20		
		" Philosophical Magazine	1 50		
		" Scientific News	4		
		" American Mechanic	8		
		" Nursery Magazine	15		
		" St Nicholas	25		
		" Daily Advertiser	8	6	55
		Due to Oct 1st		85	92

79.37
6.55

Bw William Kapf
Paper ac 16.75

Chg. C

New York, Oct 17/72
234 Broadway.

Prof. Edison -

Dear Sir -

Your letter no 2 we send you a copy of Evolution of Sound as part of "The Problem of Human Life" Don't fail to see you will enclose them to read it. It refers to phonographs & Telephone &c. at the close in a note. We think it will interest you whether it convinces you or not. Anxious to see your reply to Prof. Dr. Wm. W. Sinof we copy when ready. Yours Truly

Hall & Co. Pubs.

THEO: PUSKAS
1, Rue de la Bourse

Paris, le October 22d 1878

Th. A. Edison Esq
Menlo Park
N. J.

Dear Sir:

According to your letter of 7th inst. I have to-day subscribed in your name to the "Electricité" for one year, dating from the 1st October 1878.

The 11 numbers which have already appeared, have been forwarded you by post to-day.

Believe me, dear Sir, yours very truly

Theo. Puskas
P. Thom.

THEO: PUSKAS
1, Rue de la Bourse

Paris, le octobre 28e 1879

My dear Edison:

I have subscribed in your name to the "comptes-rendus des séances de l'académie des sciences" for one year, dating from the 1st October 1879.

I have also subscribed for you to the "correspondance scientifique", but only for three months, and await your further instructions to continue the subscription if you think fit.

Very truly yours

Theo. Puskas

THEO: PUSKAS
1, Rue de la Bourse

Paris, le October 21th 1877

My Dear Edison!

I found it to-day to be impossible to subscribe to the "Comptes rendus" from October, the subscription beginning always with the year; as I have subscribed for the running year and to-day forwarded you all the back numbers of this year, the others will follow regularly as they appear.

Adams has just arrived here from London to-day to make carbon-discs.

I sent you enclosed a very incomplete sort of price list from the Gramon machine people, it is however all what they have got.

As soon as I get lists and catalogues from others I shall forward them immediately.

Very truly yours

Theo. Puskas

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

Fol. 271

New York, Oct 24 1878

M. T. A. Edison

Menlo Park

To Brentano's Literary Emporium, Dr

P. O. Box 1401. 39 Union Square, New York.

Brentano's bill		
send	15	75
Oct 17 Engineering telegraph		10
2/4 La Marmora Italy 2 vols		50
	16	15

Sent above
full amt
Nov 4.78

Cathedral Building,
Winthrop Square, Boston.

National Office,
4 Astor Place.

HOUGHTON, OSGOOD & CO., Publishers,
SUCCESSORS TO
J. R. OSGOOD & CO. and HURD & HOUGHTON.

New York, Oct. 26th 1888

Mr. Thos. A. Edison

Dear Sir,

During your absence in the West, we wrote you in regard to completing your set of Knight's Am. Mechanical Dictionary, for which you subscribed when in Newark, and received word from your Secretary, that upon your return the matter would receive attention. We will be pleased to exchange your parts for a bound set of the work as per enclosed circular.

Yours Truly Houghton Osgood & Co.
per A.M.

Mr. Thos. A. Edison
Orange N.J.

WJ Oct 30 - 78
Jonas M Libbey
ans Nov 1, 78
Sent to for subscription

Princeton Review.
47 Park Row N.Y.
Oct. 30 78.

Prof. Thomas A. Zeien
My dear Sir

As one of your numerous body of debtors I take the liberty of sending you the current issues of the Princeton Review.

This work will I trust become of greater & better service to workers in the scientific field

Sincerely desire to

present in the paper a summary of all that is most valuable in every department of current thought, and with this object in view any pecuniary expenditure which may be necessary or proper is willingly made.

In the advancement of high interests it has circulated among the most intelligent readers of this country, editions of over fifteen thousand of the single number, and even at the extremely low price at which it is sold, the public interest is such that it promises to be well remunerative.

Called for prompt, indeed, & very popular action, I feel, & the attention of those whose time & [illegible] is fully and profitably [illegible]

With the highest respect, Your [illegible]

Edward W. Gilby

THE WILLMER & ROGERS NEWS COMPANY,
31 Beekman Street, New York,
IMPORTERS OF NEWSPAPERS, PERIODICALS AND BOOKS,
Special Authorized Agents in the United States and Canada, for the
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BRANCH OFFICES: LIVERPOOL AND LONDON.

Subscriptions Received for every Newspaper & Periodical published in Great Britain, Germany & France. All Subscriptions payable in advance. Books imported in quantity or by single volume.

NEW YORK, Nov 1st 1878

Mr T. A. Edison
Menlo Park,
N.J.

Sir, In accordance with your request we now enclose quotations (in red ink) of yearly subscriptions to the Periodicals on your list.

The Industrie Belge & the Scient' illust – we do not have on our list – but we will supply them (if still published) at as cheap a rate as they can be done at.

Respectfully
The Willmer & Rogers News Co
C Willmer
Manager

[ENCLOSURE]

Periodicals Wanted. ordered Nov 4.78

Poggendorff Annalen	Leipzig	$11.40	~~$11.40~~ 11.40
Repertorium für experimental-physik		$7.35	~~$7.85~~ 7.10
Journal of the Chemical Society			~~$8.~~ 8.50
× Annales de Chemie et de physique	monthly	$10 —	~~$10.00~~ 11 00
× Comptes Rendus	Weekly	$7 —	~~$7.00~~ 7.25
× La Nature	Weekly	$7 —	~~$7.00~~ 7.25
× Moniteur Scientifique	monthly	$7 —	~~$7.00~~ 7.25
Engineer			$10 10.50
Engineering			$10 10.50
Eng Mechanic & World of Science			$3.25 3.50
Telg Journal & Elec Review			$3. 3.25
× Annales Telegraphiques	alternate monthly	$4.50	✓ 4.50
× — Industrielles		$10.	~~$10.00~~ 11.00
Horological Journal		$2.25	2.50
Nature		$7.	7.00
Iron		$10	10.50
Philos Magazine		$11.00	12.00
× Indust Belge	do not know this		2.00
× Scient' Illus'	do not know this		2.00
Science pour tous – Journal illustré	Weekly	2.50	
			$139.00

T A Edison

Menlo Park

N J

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

[BILL FROM GEORGE W. VAN NESS] [NOVEMBER 1, 1878]

237 MARKET STREET, COR. MULBERRY.

		Balance Bill Bill & Cash Oct 1st	85	92	
Oct	3rd	Harpers Weekly		10	
		New York Weekly		6	
		Sci American		8	
		" Supplement		10	
		Musical Library		10	
		Druggists Circular		20	
		Popular Science Monthly		50	
		" Supplement		25	
		Silliman's Jour of Science		53	
	4	Fowler's Magazine		15	
		Harpers Bazar		10	
		Iron		30	
		Nature		30	
		English Mechanic		15	
		Chemical News		20	
	11	Harpers Weekly		10	
		Bazar		10	
		New York Weekly		6	
		Fowler's Magazine		13	
		Sci American		8	
		" Supplement		10	
		Nature		30	
		Iron		30	
		English Mechanic		15	
		Chemical News		20	
		Philadelphia Photographer		50	
		Monufacturer & Builder		20	
		Sci News		40	
		Boston Jour of Chemistry		10	
	18	Harpers Weekly		16	
		Bazar		10	
		Scientific American		8	
		" Supplement		10	
		Chemical News		20	
		English Mechanic		15	
		Iron		30	
		Nature		30	92 83

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

		Brought Forward		22 83
Oct	18	Musical Library	10	
		Popular Monthly	35	
		Demorest "	35	
		St Nicholas	35	
		Atlantic Monthly	35	
		Hovey's Magazine	15	
		R. G. Weekly	6	
	25	Harpers Weekly	10	
		Bazar	10	
		R. G. Weekly	6	
		Hovey's Magazine	15	
		Scientific American	8	
		Supplement	10	
		American Machinist	8	
		Nursery	15	
		Popular Science Monthly	30	
	28	Iron	30	
		Nature	30	
		English Mechanic	15	
		Chemical News	30	
	31	Harpers Weekly	10	
		Sci American	8	
		Supplement	10	
		R. G. Weekly	6	
		Nature	30	
		English Mechanic	15	
		Chemical News	30	
		Iron	30	
		Philosophical Magazine	1 50	
		Musical Library	10	
		Sci News	4	
		Boston Jour of Chemistry	10	
		Hovey's Magazine	15	
		Harpers Bazar	10	
		Daly & Arthur for Invoice of Oct	85	1 81
				$100 74
				85 92
				14 82

Geo W Sample Nov 1. 1892

Paper of Bill 82 [illegible]

Chd M. C.

Bill for Books wanted.

+ sent for Nov 21st
bill to be sent to Z Apple to

Cogsts prices			
$1.50	Worthen –	Practical Drawing Book	$ 1.50
$1.12	Bloxam –	Metals their Properties and Treatment	1.50
1.12	Maxwell –	Theory of Heat	1.50
4.50	Schellen –	Spectrum Analysis	6.00
1.12	Shelley –	Workshop appliances	1.50
.90	Tyndall –	Light and Electricity	1.25
3.85	Wagner –	Handbook of Chemical Technology	5.00
1.50	Youmans –	Correlation and Conservation of forces	2.00
1.50	Tyndall –	Heat as a mode of motion	2.00
4.10	Booth + Morfit –	Encyclopedia of Chemistry	5.00
4.20	Byrne –	Handbook for the Artisan Mech + Engr	5.00
5.90	Byrne –	The Practical Metal workers Assistant	7.00
	Hawkins –	Camus – Treatise on the teeth of wheels –	
	Colburn –	The Gas works of London –	
2.50	Duseance –	Practical treatise on the fabrication of matches, gun cotton and fulminating powder	3.00
2.00	Fairbairn –	The principles of Mechanics and machinery of transmission	2.50
2.40	Guettier –	Metallic Alloys	3.00
1.65	Harris –	Gas Supts pocket Companion	2.00
2.00	Kobel-Erni –	Mineralogy simplified	2.50
2.40	Landain –	A treatise on Steel	3.00
1.20	———	Painter, Gilder + Varnishers Companion	1.50
1.00	Perkins –	Gas + Ventilation	1.25
6.00	Regnault –	Elements of Chemistry	10.00
2.90	Williams –	On heat + steam	3.50
			$ 71.80

NEW YORK, Nov 21/78

Received Two Dollars, subscription to

Dec/79 inclusive.

With thanks of PRINCETON REVIEW.

Sir

Since you have already received the numbers for the present year we have presumed that your subscription was for the coming year.

New York Nov. 2/78
446 Broome Street.

Mr. S. L. Griffin

Dear Sir.

I concluded that it would be better to send the books for Prof. Edison's inspection, if you will kindly show them to him and return them to us in case the Professor should decide not to purchase them.

Yours truly A. Norraidow

Prices in Cattalogue

NM Nov 2 78
Norrainkow

Ans'd Nov 4 + sent
check for $12.80

T. A. EDISON.

1

Menlo Park, N. J., Nov 4 188

William T. Rogers
Beekman St NY

Where is the list of periodicals which you were to send with prices
Please erase Computer
Rendus
T A Edison

17 Nov

11.30 am
9 ma

BRENTANO'S
Literary Emporium,
39 Union Square,

P. O. Box 1401. New York, Nov 4 1878

Thos. A. Edison Esq
Menlo Park
Sir: Your favor of even date covering check for 16.00 duly to hand upon discovery of liberty your further kind orders remain
Yours Resty
Aug Brentano

New York
Nov. 6. '78

S. L. Griffin.

Dear Sir,

I received the Photographed Spectra this morning and have to thank you for your favor containing Check for $12.80 in payment for Parology and Electricity on Light.

Yours very truly
A. Norrai kan.

P.S. I shall be pleased to supply any other books you may require

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

LEGGAT BROS'
LIBRARY CATALOGUE
OF
AMERICAN & FOREIGN
LITERATURE,
Will be sent to any address upon application.
SEND STAMP.

CHEAPEST BOOKSTORE IN THE WORLD.
Immense Prices Paid for Libraries and Parcels of Books. Old Books Exchanged.

New York, Nov 1878

Mr Prof T A Edison

Bought of **LEGGAT BROTHERS,**
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ANDREW E. LEGGAT, RICHARD G. LEGGAT. TERMS—CASH. No. 3 BEEKMAN ST., Opposite New Post Office.

1	Reynaud's Ceiling	4		
1	Carlino Wells	1	50	
1	Jamieson & Auldjo	7	50	
1	Schellen Phe Wells	4	50	
1	Ferguson	7	50	
1	Tyndall Heat	1	50	
1	Maxwell "	1	00	
1	Cornell of Forces	1	50	15 50

Have ~~[illegible]~~ orders balance and will ship Thursday

SUBSCRIPTION-BOOK DEPARTMENT

HURD AND HOUGHTON,
Nos. 13 & 21 Astor Place and 136 Eighth Street
(A few doors east of Broadway)
Publishers and Booksellers

ALEXANDER HURD
HENRY O. HOUGHTON
GEORGE H. MIFFLIN

New York, Nov. 7. 1878

Thos. A. Edison Esq.

Dear Sir

Your favor of the 6th inst. is at hand. The Mech. Dictg. is complete in 35 Parts: as you have 21, there still remain 14 Parts undelivered, which we will be pleased to send you per Express, prepaid, upon receipt of $7.00

Yours Respectfully

Houghton Osgood & Co.
per Geo.

N.Y. Nov 7. 76

Houghton Osgood & Co

Wall & Front Streets

for $ 1 Feby. 1874

New York, Mar 8 1878

Received of Chas. Batchelor

Fifty 100 Dollars

On acc

$1000

The American News Company,

per J Hughes

Broad St

New York

Nov 20/78

Dear Sir

I have been informed by the Society of Telegraph Engineers that ~~part~~ XXII ~~under~~ of the Journal has been mailed direct to you if you have not received the same please notify us

Yours Truly

Geo [illegible] Boston & Co

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

[BILL FROM GEORGE W. VAN NESS] [NOVEMBER 30, 1878]

Nov	1st	Novelty Magazine			
		Harpers Bazar	10		
	8	" Weekly	10		
		" Bazar	10		
		New York Weekly	6		
		Scientific American	8		
		" Supplement	10		
		Novelty Magazine	15		
		Vogue	30		
		Bazar	30		
		English Mechanic	15		
		Chemical News	20		
		Druggist Circular	20		
		Popular Science Rev	25		
		Manufacturer & Builder	20		
		Philadelphia Photographer	50		
		Silliman's Jour of Science	55		
	15	Harpers Weekly	10		
		" Bazar	10		
		New York Weekly	6		
		Scientific American	8		
		" Supplement	10		
		Novelty Magazine	15		
		English Mechanic	15		
		Vogue	30		
		Bazar	30		
		Chemical News	20		
		Manufacturer & Builder	20		
		Westcott Magazine	25		
		Popular Magazine	50		
		Phonetic Phrenology	10		
		Scientific News	4		
	22nd	Harpers Weekly	10		
		" Bazar	10		
		Scientific American	8		
		" Supplement	10		
		New York Weekly	6	107	

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

		Brought Forward		107 30
Nov	23rd	Popular Magazine	15	
		Chemical News	40	
		Nature	30	
		English Mechanic	15	
		Iron	30	
		American Machinist	8	
		Philosophical Magazine	1 50	
		Popular Science Monthly	50	
		Brain Magazine	15	
		St Nicholas	25	
		Progress	10	
	28	Harpers Weekly	10	
		Boston	10	
		Scientific American	8	
		Supplements	15	
		New York Weekly	6	
		Hearth & Home Magazine	13	
		Chemical News	40	
		Nature	30	
		English Mechanic	15	
		Iron	30	
		Progress	10	
		Scientific News	4	
		Musical Courier	10	
	31	Harpers Weekly	10	
		Spinners Gazette	10	
		Burnett's Musical	10	
		Seaside Library	20	
		Scientific News	4	
		~~Progress~~	~~10~~	
		Belfast Free Press	5	
		Budget	15	
		Daily Advertiser for Nov	50	7 85
		Due		$114 60
				10 75
				$13 90

Geo. W. Vannah Nov 30
Paper ap 13.90

New York, Dec. 2?
234 Broadway

Prof. Edison –

Have you yet read "Evolution of Sound"? If so would you have any objection to briefly stating your candid views as to the weight of Wilford's arguments against the Wave-theory? We are intending to print a circular giving the views of Scientists and College professors as to the result of this arraignment of the old hypothesis, and would be glad to add your valuable opinion to the list. If you have not yet had time to read the work in the midst of your arduous investigations, we hope

you will do so at your earliest convenience, giving special reference to the arguments bearing against the wave-theory.

We send you inclosed a circular condensing the opinions of the religious press on the Evolution part of the "Problem of Human Life" which indicates ~~that the arguments~~ that the positions of Wilford on Sound are not to be passed over in silence.

Wishing you the best of success in your great discoveries and investigations we are

Very Truly Yours
Hall & Co
Publishers

Mr Alex. G. Bell
Washington D.C.

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

BOOKS IMPORTED TO ORDER FROM EUROPE, AND FOR PUBLIC INSTITUTIONS, FREE OF DUTY.

New York, Dec 4 1878

Mr. T. A. Edison

Register 6688

Salesman

Folio

Bought of D. VAN NOSTRAND,

Bookseller, Publisher and Importer,

OF SCIENTIFIC, MINING, ENGINEERING, MILITARY AND NAVAL BOOKS,

23 Murray & 27 Warren Streets,

UP STAIRS.

TERMS CASH.

	1 Rankines Steam Engine	5	00	
By Cash				

THE WILLMER & ROGERS NEWS COMPANY,
31 Beekman Street, New York,
IMPORTERS OF NEWSPAPERS, PERIODICALS AND BOOKS,
Special Authorized Agents in the United States and Canada, for the
Illustrated London News, Graphic and Punch, Contemporary Review, The Nineteenth Century, Fortnightly Review, Cornhill Magazine, Chambers' Journal, Good Words, Belgravia, London Society, Sunday Magazine, World of Fashion, Belfast, Millner and Drummaster, New Delhi, Young Ladies' Journal, All the Year Round,
and Cottingham Remy's Universal Mode.
BRANCH OFFICES: LIVERPOOL AND LONDON.
Subscriptions Received for every Newspaper & Periodical published in Great Britain, Germany & France. All Subscriptions payable in advance. Books imported in quantity or by single volumes.

NEW YORK, Dec 6 1878

T. A. Edison Esq.

Dear Sir. The parcel of publications sent you yesterday was forwarded to us from London in four bales. in consequence of their being more than seven days old, we were prohibited from mailing them to you direct.

We make the above statement as we consider an explanation due you.

Yours truly
Willmer & Rogers News Co.

THE WILLMER & ROGERS NEWS COMPANY,
31 Beekman Street, New York,
IMPORTERS OF NEWSPAPERS, PERIODICALS AND BOOKS,
Special Authorized Agents in the United States and Canada, for the
Illustrated London News, Graphic and Punch, Contemporary Review, The Nineteenth Century, Fortnightly Review, Cornhill Magazine, Chambers' Journal, Good Words, Belgravia, London Society, Sunday Magazine, World of Fashion, Tailor, Milliner and Dressmaker, Bow Bells, Young Ladies' Journal, All the Year Round, and Cassington Rouse's Universal Books.

BRANCH OFFICES: LIVERPOOL AND LONDON.

Subscriptions Received for every Newspaper & Periodical published in Great Britain, Germany & France. All Subscriptions payable in advance. Books Imported in quantity or by single volume.

NEW YORK Dec 9th 1878

T. A. Edison Esq.
Dear Sir.

Do you wish us to procure all the numbers of the "Science and Distribution of Coal Gas" it has now reached about the 10th part, and is to be completed in 36 parts. We have ordered all the Journals sent to you as directed by you on 29th inst. excepting the two English ones, one of which is referred to above, on receipt of advice from you, will at once order them sent direct from London.

Yours truly
Willmer & Rogers News Co
Beckman

T. A. EDISON.

Menlo Park, N. J., 187

Engineering & Mining Journal
Engineering News
Van Nostrands Eclectic Engineering magazine
Coal trade Journal
Gaslight Journal
Metallurgical Review
~~Plumber & Sanitary Engineer~~
Polytechnic Review
English Gaslight Journal
" Coal Gas Journal

1878. Edison, T.A. - Clubs and Societies (D-78-010)

Correspondence, some by Edison; receipts.

Not selected: advertising circular.

THE SOCIETY OF TELEGRAPH ENGINEERS.

4, BROAD SANCTUARY, LONDON.

No. 47

Local Hon. Sec. and Treasurer for North America

Received *from* Wm. J. A. Edison

the Sum of Five dollars *being his Subscription to The Society of Telegraph Engineers for the year commencing the 1st of January, 1878 as follows :—*

	£	s.	d.
Member's Subscription - -	5		
Publishing Fund - - -			
Total	£ 5		

Geo Gifford

Local Hon. Sec. and Treasurer.

Address 16 Broad St New York

T. A. EDISON,

Menlo Park, N. J., June 15 1878

Albert R. Leeds Esq
New York

Dear Sir

Upon returning home from a trip to Pennsylvania I find your favor of the 10th announcing my election as a corresponding member of the New York Academy of Sciences. Please convey my thanks to the society for this honor which I assure you gives me great pleasure

Very Truly
T. A. Edison

[ATTACHMENT]

NEW YORK ACADEMY OF SCIENCES,

LATE

LYCEUM OF NATURAL HISTORY IN THE CITY OF NEW YORK.

No. 12 W. 31st. St.

New York, June 12th 1878

Sir,

I have the pleasure to announce to you that at the meeting of the ACADEMY, held June 10th, you were elected a Corresponding Member of the Society.

Albert R. Leeds
CORRESPONDING SECRETARY.

Mr. Thomas A. Edison

EXTRACT FROM BY-LAWS, CHAPTER VIII., § 2., *footnote*.—Honorary and Corresponding Members are exempt from initiation fees and annual dues.

E

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

August 26, 1878.

I have the honor to inform you that you were this day elected a Fellow of the AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

The constitution requires that members shall pay a fee of $2.00 on their election as Fellows. A receipt for fellowship fee will be furnished by the Permanent Secretary.

Respectfully your obedient serv't,

F. W. PUTNAM,

Permanent Secretary, A. A. A. S.

To Dr. Thos. A. Edison Salem, Mass.

Menlo Park, N.J.

Sent to Putnam by mail 10-21-1878

No. 621

St. Louis, Aug. 22. 1878.

Received of Thomas A. Edison $5.00

As Admission fee to AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

St. Louis Meeting.

F. W. Putnam

Per F. B. David Ass't. Permanent Secretary.

American Association for the Advancement of Science.

No. 386

Salem, Oct. 24, 1878

Received of Thos. A. Edison

Two Dollars *in payment of Fellowship Fee.*

F. W. Putnam.

Permanent Secretary.

by E.W.

American Association for the Advancement of Science.

ST. LOUIS MEETING, AUGUST, 1878.

Member's Ticket.

No. 326.

This is to Certify

That Thomas A. Edison

of Menlo Park – N.J.

is enrolled as a Member of the Association and is entitled to the privileges arranged for by the Local Committee.

This Ticket is also a receipt for the assessment paid for the St. Louis Meeting.

F. W. Putnam Permanent Secretary.

W. B. Rass

1878 TWENTY-SEVENTH ANNUAL MEETING 1878

OF THE

American Association for Advancement of Science.

THIS CERTIFIES

That Mr. Thomas A. Edison is a member of the O.O.O.O.S., and entitled to all the courtesies tendered to the Association by Railroads and other Companies, for its Annual Meeting at St. Louis, to be held in August, 1878.

F. W. Putnam

Per F. B. Dawson Permanent Secretary.

LEVISON & FLYNCE, PRS., ST. LOUIS.

Lancaster Oct. 5th, 1818.

Mr. Eddison:

Dear Sir:—

You are hereby informed that you have been elected an honorary member of the Northern Literary Society of Franklin and Marshall College.

Yours respectfully,
James R. Lewis
Cor. Secy. N.L.S.

M.L. Nov 21. 78
G. G. Ward

Ans 8-9 sent
Check for $4
Nov 22, 78
See letter book

16 Broad St
New York

Society of Telegraph Engineers.

21 Nov 78

Sir,

I beg to remind you, that the amount stated below is due from you to the Society, and I have to request that you will forward the same to me without delay, as I am desirous of making a remittance to London.

I am, Sir,

Faithfully yours,

Geo G Ward

Local Hon. Sec. and Treasurer for

T. A. Edison

for 1878 $5.00

Less $1 40/7 standing to your credit ——

1878. Edison, T.A. - Creditors (D-78-011)

Correspondence relating to unpaid bills.

All selected.

Mobile Jan 23 1858.

Dear Sir — You will confer a favour by sending check for the taxes as assessed against you for return next as the demand upon me as Collector makes it necessary that I should collect the taxes to pay Priority and School Orders. Please do not disappoint and by so doing oblige

Very Truly
C. C. Campbell
Coll.

Shannon
67 88/100 Paid

Newark N.J. Jany 28th 78

Mr Thos A. Edison

Dear Sir

When our young man was down to see you, you promised to send check for the amount of your bill last Tuesday. We have not heard from you as yet, please send it as I am very much in need of money. and oblige yours Very Respectfully

David Strang
637 Broad St
Newark
N.J.

$67.88

JEREMIAH QUINLAN,

GLASSWARE,

Druggists' Sundries & Rubber Goods,

136 & 138 William Street,

NEW YORK, Oct 19th 1878.

Mr T A Edison

Dear Sir.

Please send

Check for small balance

of $6 owing

Respectfully

Jeremiah Quinlan

THE HARD RUBBER AND CANE COMPANY,
No. 83 Walker Street,
NEW YORK.

February 28th 1878

Mr. J. T. Murray
Newark N.J.

Dear Sir:

Enclosed please find our monthly statement for the amount of $68.82 due us since January 7th/78 and which we request you to settle as soon as possible. When you called for the goods sold you you promised us verbally and later by letter to send the balance within a few days. Nearly two months have passed yet without payment of the amount. Our draft also came back unpaid. We beg to call your attention to the fact that in future there may be occasion for you to buy goods from us which you cannot get from our competitors and in anticipation of such occurrence we should advise you to settle our patience not too long for we might be as difficult to sell you our goods as you are now in paying us.

THE HARD RUBBER & CANE Co.
Per Atkinson Chap.

BRADLEY'S PATENT NAKED WIRE HELICES FOR ELECTRO-MAGNETS.

FITCH & MESEROLE,
MANUFACTURERS OF
Electrical Apparatus,
40 COURTLANDT STREET.

New York, Feb 28 1878

Mr Satcheler
If possible. Please
Send me $25.00 by tomorrow
(Friday) mail
Yours &c
Fitch

BRADLEY'S PATENT NAKED WIRE HELICES FOR ELECTRO-MAGNETS.

FITCH & MESEROLE,

MANUFACTURERS OF

Electrical Apparatus,

40 COURTLANDT STREET.

New York, Dec 13 1878

T. A. Edison Esq
Menlo Park N.J.

Dear Sir

In calling your attention to statement of account rendered 1st inst & 10th I would ask a remittance as early as convenient.

Having purchased the interest of Mr A. V. Meserole my partner in the late firm of Fitch & Meserole we design of closing the accounts as speedily as circumstances will permit.

The business will be continued by myself at the above premises without further change

Very truly F. S. Fitch

S. BERGMANN & CO.,

No. ~~100~~ 104 Wooster Street,

MANUFACTURERS OF

Hotel and House Annunciators and Electrical Apparatus of all kinds,

NEW AND IMPROVED PRUD'HOMME BATTERIES A SPECIALTY.

Send for Circular.

New York, March 18th 1878

Mr T. A. Edison.

Menlo Park.

N. J.

Dear Sir.

Will you please let us have some money by Friday March 18th if possible as we have a heavy payment to make. by so doing you will oblige

Yours Respectfully.

S. Bergmann & Co

Platina,
Apparatus, Vessels, Sheet, Wire, etc.
for
Laboratory & Manufacturing Purposes.
Scraps, and Ore purchased.

To Mr. T. A. Edison "per B"

H. M. Raymor

Menlo Park N.J.

25 Bond Street,

New York. Mch 21 1878

Dear Sir —

Your favor of 19th inst. with order, without a remittance, was rec'd yesterday, P.M. —

I am already some $15.00 out of pocket by sending material to Menlo Park, under the impression that I was obliging Mr. Edison. The experiment was too expensive. "It burnt Childs dream fire."

On receipt of $7.00 I will fill the order and return any overplus.

Respy Yrs H. M. Raymor

JEREMIAH QUINLAN & Co

GLASSWARE,

Druggists' Sundries & Rubber Goods,

136 & 138 William Street,

New York, March 25th 187 8

Mr T. A. Edison

Dear Sir.

Please send a check for the balance of your bill. also please send an Order to ship

Respectfully

Jeremiah Quinlan

DONEGAN & REILLY,

Coppersmiths, Plumbers, Steam and Gas Fitters,

BRASS FOUNDERS AND FINISHERS.

Nos. 229 and 230 WEST STREET,

New York, Mch. 25 1878

Mr. Thos. A. Edison

Dr. Sir:

We enclose your statement of your account date Jany. last, and would be pleased to have your early consideration for same.

Very respectfully,

Donegan & Reilly

WROUGHT IRON PIPE AND FITTINGS,

Steam Pumps, Coils, Heaters &c., &c.

Special attention given to Ship and Steamboat Work. Public and Private Buildings, Breweries, Distilleries, Mills, Factories, Refineries, &c., fitted up with Steam, Water and Gas in the most approved and satisfactory manner.

New York, Jany 3 1878

Thos. A. Edison

To DONEGAN & REILLY, Dr.

COPPERSMITHS, PLUMBERS,

Brass Founders and Finishers, Steam and Gas Fitters,

229 and 230 WEST STREET.

		Sheet Brass Cylinders 12 lbs. @	50		
		1 lbs. Copper welded 224	3 85/4		
					7 87
		Recd Payment			
					Donegan & Reilly

BRADLEY'S PATENT NAKED WIRE HELICES FOR ELECTRO-MAGNETS.

F. W. Wolf Successor to

FITCH & MESEROLE,

MANUFACTURERS OF

Electrical Apparatus,

40 COURTLANDT STREET.

New York, Mch 28 1878

Mr Batchelor

Be sending for me tomorrow if possible. Will be completely frustrated if you do not. I have an improved induction coil I wish you would try. If not we calls will leave it at "Pen office" Tuesday.

Fitch

Newark March 29/78

T. A. Edison Esq

Dear Sir

A note will not be accepted — the proposition is cash — only. Be sure and send the check so that I can have it by Thursday and I will close it up — don't fail

Yours

A Manners

S. BERGMANN & CO.,

No. ~~126~~ 104 Wooster Street,

MANUFACTURERS OF

Hotel and House Annunciators and Electrical Apparatus of all kinds,

NEW AND IMPROVED PRUD'HOMME BATTERIES A SPECIALTY.

Send for Circular.

New York, April 1st 1878

Mr. T. A. Edison.

Menlo Park.

N. J.

Dear Sir.

Will you please and try to get some money for us this week as we have some heavy payments to make and as we are in great need for it.

Yours Respectfully.

S. Bergmann Co.

Nole.

What shall we do with the Telephones.

OFFICE OF **Donegan & Reilly,**

COPPERSMITHS, PLUMBERS,

Brass Founders and Steam Fitters,

Nos. 229 & 230 West Street,

NEW-YORK, April 1 1878

Mr. Thos. A. Edison
Menlo Park
N. J.

Dr. Co.

Please take notice that we shall draw on you in favor of ourselves on 10th inst. for 23.23 amount of our acct. Please honor the same.

Very respectfully
Donegan & Reilly

Command ~~[illegible]~~ Pd the loom
& ask me for a chicken
the 9th —

Bradley's Patent Bare Wire Coils for Electro-Magnets, Standard Resistance Coils, Galvanometers, &c.

F. K. FITCH.

(Recommended by Prof. Joy Morehouse)

Manufacturer of

ELECTRICAL APPARATUS,

40 COURTLANDT STREET.

New York, April 11 1878

T. A. Edison Esq
Menlo Park N.J.

Dear Sir.

I am exceedingly hard pushed for funds to meet some pressing bills and would ask you to honor my account at the earliest possible moment.

Very Truly Yours
F. K. Fitch

S. BERGMANN & CO.,

No. 104 Wooster Street,

MANUFACTURERS OF

Hotel and House Annunciators and Electrical Apparatus of all kinds,

NEW AND IMPROVED PRUD'HOMME BATTERIES A SPECIALTY.

Send for Circular.

New York, April 14th 1878.

Mr. T. A. Edison.

Menlo Park.

N. J.

Dear Sir

Will you please and try to let us have some money to morrow. as we are very short.

Yours Respectfully.

S. Bergmann & Co

per Moe.

1-15-78. 40,000.

Pennsylvania Railroad Company.

_____ Station,

_____ 187

Metuchen Apr 18th 1878

Mr W Carman

Dear Sir

I enclose bill for 4 pieces flooring ordered by Mr Cornish. Was sent by freight train last night

Can you advise me whether there is any prospect of getting any money from Mr Edison soon.

I am in a fearful fix for want of funds.

Yours truly

Maury Freeman

Bradley's Patent Bare Wire Coils for Electro-Magnets, Standard Resistance Coils, Galvanometers, &c.

F. K. FITCH.

(SUCCESSOR TO FITCH AND HOSTMANN.)

Manufacturer of

ELECTRICAL APPARATUS,

40 COURTLANDT STREET,

New York, April 19 1878

T. A. Edison Esq

Menlo Park N.J.

Dear Sir.

I must have money if you cannot send me a check I will accept your note, with interest, for 30 days

Yours &c

F. K. Fitch

amount is only $75 30/100

Bradley's Patent Bare Wire Coils for Electro-Magnets, Standard Resistance Coils, Galvanometers, &c.

F. K. FITCH.

(Formerly of Fitch and Mosholder.)

Manufacturer of

ELECTRICAL APPARATUS,

40 COURTLANDT STREET.

New York, Apl 20 1878

Mr. Edison,

I mailed a letter to you at Menlo Park last evening saying if you could sent you a check for the balance of $63.37 I would take a note for 30 days with interest, I can get a note discounted and thus raise money which I must have.

Very truly
F. K. Fitch

New-York May 1 1878

Mr. Edison

Dear Sir.

Will you please send let me have a little money by saturday morning and oblige yours

truly
S. Bergmann

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

Established 1864

ALL WORK EXECUTED ON OUR OWN PREMISES.

Very Best Quality of Work Guaranteed.

411 ~~410~~ BROADWAY,

New York, May 1st 1875

Mr. Adams

Bought of

JOHN S. HULIN,

"The" Printer and Manufacturing Stationer.

Dealer in SPECIALTIES:

FIRST-CLASS ACCOUNT BOOKS AND FINE MERCANTILE PRINTING.

1875 May 13	To 10 dz Letter Copies	16
16	Binding Letter Heads in 2 pads.	30
		19

Received

I presume that you have overlooked the item etc

Yours truly JSH

Bradley's Patent Bare Wire Coils for Electro-Magnets, Standard Resistance Coils, Galvanometers, &c.

F. K. FITCH.

(Successor to Fitch and Mosenthal.)

Manufacturer of

ELECTRICAL APPARATUS,

40 COURTLANDT STREET,

New York, May 16 1878

Mr. Thos A Edison
Menlo Park N.J.
Dear Sir.
If possible please do something for me Saturday, and in much need or I would not trouble you
Yours truly etc
F. K. Fitch

I wish you would send me work of some kind
Fi

15-5-78. 10,000.

Pennsylvania Railroad Company.

..... Station,

..... 187

Metuchen May 23rd 1878
Mr T. A. Edison
Dear Sir
can you spare me by bearer say some two hundred dollars on a/c
Oblige
Yours truly
Manning Freeman

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

WILLCOX & GIBBS S. M. COMPANY

No. 8 CEDAR STREET

Newark N.J. June 5th 1878

Mrs T. A. Edison

Dear Madam

The W & G S M Co are using to collect our back accounts and accordingly we drop you this note to say that you will oblige us if you will make it convenient to remit as soon you can the balance now due on your lease big $20

Yours respectfully

W & G S M Co

O. A. Dean

Manager

Mrs Hussey
would you be so
kind as to send me
five dollars worth tonight

Accept
Mrs S. A. Eckim

Muddy Creek June 16th 1862

All claims must be made within Ten Days from receipt of Goods. All Goods will be shipped and receipts taken in GOOD ORDER, NO DAMAGE OR LOSS THAT MAY OCCUR IN TRANSPORTATION WILL BE ALLOWED.

Warehouse and Agency,
HONESDALE GLASS CO.

DRUGGISTS,
PHYSICIANS, CHEMISTS,
Crockery & Fancy Dealers,
GROCERS,
Liquor Merchants, etc.
Supplied at the Lowest Market Rates.
Price Lists Furnished.
Manufacturers of Mason's Fruit Jars.

New York, June 26 1874

Mr T. A. Olson

Bought of C. C. STUTTS,
AMBER, GREEN & FLINT GLASSWARE,
27 BARCLAY STREET, Near Broadway.

1	Doz Qrts 1, 2 & 3 Pints	3 85
1	Full Doz Mortars	2 75
4	Doz Corkscrews of Sides	4 10
2	Qt. Pitchers Gummed	1 20
1	½ " "	1 20
1	Nest of Bowls "	1 25
1	Cups 3 & 4 in Test Tubes 24 & 28	2 25
1	Qt Jennies Cone	5 20
1	Stoneware	1 67
1	Spray Tube	" 36
1	Bottle Common Ink Bot	" 22
4	Pints Pitchers Gilt 35	" 15
1	Doz 33	1 40
		" 50
	Freight	25 00

Thomas — 25.50

1 ~~Pair Ins 32 fittings~~ — ~~.50~~
1 " " 40 " — .60
1 " " 45 " — .75
2 Bj Assd Nipples — .93
4 " Assd ~~Rubber~~ Bulb — 1

28.78
5% — 1.44
27.34

6 6 Sluce
Farace — 28.25
Chg 10 1.

Dear Sir: I have done bill of goods enclosed for June of the 3d first. The middle Ex Question of the May you wish to buy the goods, and pay the difference. Assuming it is convenient for you to pay Cash, I allow 5% & credit your allowance. Or if you wish the goods sent C.O.D. and pay the difference —

Very truly Yours
C D Stutts

Mrs. W. Gaither

Brooklyn July 2. 78.

T. A. Wiess Esq.

Dear Sir.

Agreeable to your order I sent the ponies, for consignment, yesterday afternoon. Hoping that they arrived safely and that you were pleased with their appearance, I feel confident you will be. From the description I have of your large carriage I think it decidedly too heavy

for those ponies, but you must be the
better judge of that, for I have not seen
it, if you desire to have the phaeton
that has made for them please write me
immediately, as I wish to dispose of it
your enclosing send it and can give you
a full description

Wishing you a great deal of pleasure
with Baby & Sonny
I remain respectfully Yours H. Walter.

T. A. EDISON,

Menlo Park, N. J., July 2 1878

L G Tillotson & Co

Dear Sir

Looking statement sent a balance of $141.[illegible] still due please send us a bill of items for same and oblig

Yours truly
T A Edison
Jr Carman

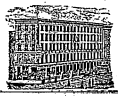
Think you must mistaken - We have no such amount charged to you -
You bought of us
May 23 500
" 27 53.51
58.51
and paid it on June 20th & the a/c is square

L. G. Tillotson & Co

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

New York, Saturday 3 1878

Mr J. A. Edison



Bought of JOHN S. DEVLIN, AGENT,

MERCHANT TAILOR AND CLOTHIER,

TERMS CASH. 28 Cortlandt and 22 and 24 New Church Streets.

Suit to order	$28 00

As I have a note to pay this morning please to remit by this bearer and oblige Yours Devlin

Metuchen July 6th 1878

Mr Thos A Edison

Dear Sir

If possible I would like you to spare me two hundred dollars on a/c.

I am laying in Coal and badly in need of funds. If convenient send Check by bearer or by mail.

Oblige

Yours truly

Marshing Freeman

OFFICE OF
S. T. Conant & Son.
COAL DEALERS,
CORNER NEW YORK & N.J. RAIL ROAD AVES.

Newark, N.J., Dec. 10th 1877.

T. A. Edison Esq
Menlo Park N.J.
Dear Sir

Mr. S. T. Conant was at your place the last of June to collect his bill. We have heard nothing from you & might you would give it your attention

Yours Respfly
S. T. Conant & Son

John S. Devlin, Est.
MERCHANT TAILOR,
Uniforms a Specialty. 28 Cortlandt St.,
Cor. New Church St.

New York, Feby 3rd 78

Friend Edison

Will you kindly send me a check for amount of bill rendered here it not that I need every dollar I can raise but to pay maturing bills I would not ask you for it knowing that you have succeeded in your efforts on the novel question

I am truly Yours
Jno S Devlin
Per J. H. Edison

WILLIAMS & PLUM,
STATIONERS, BINDERS & PRINTERS,
NEWARK, N. J.

July 19th 1878

Chas Butcheldor Esq

Dear Sir Generally
and we think for a part of
us are sorry to trouble you
but may awfull short this
Hot Mathe seems to have drained
up all the money in Newark

Yours Truly
Williams & Plum

Acknowledge receipt July 31 78

(5)

FRASSE & COMPANY,

P. O. Box 4527, **62 Chatham St., New York,**

Importers of and Wholesale and Retail Dealers in

Fine Tools, Files, Steel Wire, and Supplies for Machinists, Jewelers, Watchmakers, Engravers, Die Sinkers, and others.

July 29/78

T A Edison Esq

Dear Sir

We were surprised to have your draft returned dishonored, the account being now overdue.

Please send Check for amount

& Oblige Frasse & Co

Check $3.40 sent Aug 16 78

Newark N J Aug 15 78

Please send me Check to ouce for a/c Rec'd $3.40

Yours truly

C A Dell Hall

JAMES PARTRICK. FRANKLIN S. CARTER.

Partrick & Carter,

PRACTICAL TELEGRAPHERS and ELECTRICIANS,

MANUFACTURERS OF AND DEALERS IN

TELEGRAPH and ELECTRICAL INSTRUMENTS and SUPPLIES.

No. 38 South Fourth Street,

Manufactory, 614, 616 and 618 Filbert Street,

Philadelphia, Aug. 16th 1878

Chas. Batchelor
with T. A. Edison
Menlo Park N.J.

Dear Sir:-

We are very hard pressed for funds, having heavy payments to make next week, and must therefore ask you to help us out. If you cannot send a check for full amt, due send what you can. - The work done you know, was an outlay of so much cash by us and we now feel the need of it. Hoping to hear from you by return mail we are

Yours truly
Partrick & Carter
per M. Mirvis

Menlo Park Aug 16th 1876

Mr Chas Batchelor

Dear Sir

Yours of the 15th containing Check for one hundred dollars, with request to credit the same to a/c of Mr Thos A Edison received, and credited according to instructions

Accept thanks, Mr Carman says when Mr Edison gets home, will send more, it would be very acceptable just now, being obliged to use considerable money in laying in Coal &c

Yours truly

Manning Bruman

Aug 16, 78
Manning Freeman
acknowledgment of rect of
Check for $100—

WILLIAMS & PLUM,
STATIONERS, BINDERS & PRINTERS,
NEWARK, N. J.

Aug 21st 1878

Dr Edison Esq

Dear Sir

Sorry to trouble you but are very much in need of funds to meet obligations coming due Saturday 24th If you can accomodate us you will greatly oblige

Yours Truly

William H. Plum

JAMES PARTRICK. FRANKLIN B. CARTER.

Partrick & Carter,

PRACTICAL TELEGRAPHERS and ELECTRICIANS,

MANUFACTURERS OF AND DEALERS IN

TELEGRAPH and ELECTRICAL INSTRUMENTS and SUPPLIES,

No. 38 South Fourth Street,

Manufactory, 614, 616 and 618 Filbert Street,

Philadelphia, Aug 24 1878

Chas. A Batchelor
for T. A. Edison
Menlo Park N.J.

Dr Sir—

We have a very heavy payment to make Monday, and must ask as a great favor that you send us check for $350= on acct of bill due us. We would not be so urgent if we did not stand in actual need of the cash. Please send by first mail and oblige

Yours Truly
Partrick & Carter
per C M Willis

JAMES PARTRICK. FRANKLIN S. CARTER.

Partrick & Carter,

PRACTICAL TELEGRAPHERS and ELECTRICIANS,

MANUFACTURERS OF AND DEALERS IN

TELEGRAPH and ELECTRICAL INSTRUMENTS and SUPPLIES.

No. 38 South Fourth Street,

Manufactory, 614, 616 and 618 Filbert Street,

Philadelphia, Aug 31 1879

T. A. Edison
Menlo Park N.J.

Dear Sir — Yours 30th ordering Clock for $100 on hand. Small favor thankfully received, hope you will be able to remit the balance the coming week as we are pushed hard for funds.
— please oblige

Yours truly
Partrick & Carter

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

ACCOUNTS SETTLED MONTHLY.

NEWARK BOOK BINDERY AND BLANK BOOK MANUFACTORY.

FIRST CLASS JOB AND MERCANTILE STEAM PRINTERS.

Newark, N. J., Aug 31 1879

Mr Thos A. Edison

WILLIAMS & PLUM,

Booksellers, Stationers, 711 Broad Street. Printers, Book Binders,

First Class Blank Book Manufacturers.

Aug	15	To 18 yds Fancy Cloth			5 00
		1 Gross Rubber Bands		65	
		1 " " "		50	
		To McGill Inkstand		70	1 55
	22	10 Yds Fancy Cloth			5 00
	27	1 Gr. Cup Sto			85
					12 10
		To Bill Rendered			2 05 57
					21 67

2 05 57

T. A. Edison Esq

Dear Sir, We have about $600, to raise by Thursday of next week If you can help us any We will be grateful

Yours Truly, W M P

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

All bills not paid at maturity, are subject to sight draft.

MONTHLY STATEMENT.

New York, Aug 31 1878

Mr T A Edison

Menlo Park N J

To The Hard Rubber and Cane Co. Dr.

Terms Net Cash

83 WALKER STREET.

1878				
June	2	To Mdse	$ 33	87
"	2	By Cash	27	—
			$ 6	87

Dear Sir.

Reffering to correspondence had with you & with Mr J Murray of Newark N J we respect you to settle above amount according to your promise soon, as it is not desirable to carry this old matter on day longer.

We also beg to inform you that price for our various Rubber articles have been immensely reduced this last week viz:
Rubber Sheet, Manger or thicker, at 50 cts lb
do Rod, all sizes " 75 " "
do Tube, over 1/4 in outside " 90 " " net

Resp. yours
The Hard Rubber & Cane Co.

Menlo Park
Sept 11
1878.

Mr Edison.

Will you please be so kind and let have some money about 60 dollars if you can spare it. I am sorry to trouble you but I am very needful of it.

Yours Respectfully
Miss Adams.

Paid — Pd 50.00

T. A. EDISON.

Menlo Park, N. J., 14 Sept 1878

Hussey

Please give bearer two dollars for me and oblige, will give it to you next trip

Thos A Edison

Newark Sept 18/18

8

Sir —

Please send check to the amt. of $14.00 in settlement of bill for marble mantel and oblige

Yours &c

253 Market St
Newark N.J.

J. J. Burns

OFFICE OF

Passaic Oil Works

Wharf Foot of Third Avenue,

Newark, N. J. Sept. 19 1878

Thos A Edison Esq
Menlo Park N.J.

Dear Sir

Referring you to our favor of 12 inst as yet we have not been favored with check as per Sliver we have written you several times and think it very strange you do not pay this small claim We shall rely on check by return mail

Yours Truly
McKingan & Co

OFFICE OF

Passaic Oil Works

Wharf Foot of Third Avenue,

Newark, N. J., Sept 20 1878

Wm. J. A. Edison
Menlow Park

Dr Sir. Enclosed we hand you duplicate bill of Mi. Gasoline purchased from us and shipped to you on May 20th as regulated by you in letter Sept 19th Hoping to receive check from you for same by return mail we remain

Yours

McKingan & Co

Hs hold R R receipts for above

OFFICE OF

Passaic Oil Works

Wharf Foot of Third Avenue,

Newark, N. J. Sept 27th 1878

T. A. Edison Esq
Menlo Park N.J.

Dear Sir

On the 1st inst you advised us to send you bills and claims and we sent you Bill of our claim and you advised us you would send a check immediately. As yet we have not been paid with same. Our claim is 21.00 dolls but May 20th this of has now run over 4 mos and we think it is time the of was paid. We shall expect a check by return mail.

Yours Truly
McGregor & Co

Get Hoffman & Meschompt

McKinzie & Co
Check $216 sent -
Sept 28, 78

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

MONTHLY STATEMENT.

Newark, N.J. Oct 1 1878

Mr T. A. Edison Menlo Park

Newark Edge Tool Manufactory, and Grey Iron Foundry,

No. 78 ADAMS STREET,

Terms Cash.

C. A. DeHART.

Aug	1	To 5 # Castings 7	35	
	5	in lieu of 7	10	
	25	# 7 " 7	28	
Sep	2	6 Pattern Plates 7	23	
		1 Pattern Plate "	4 55	
	8	9 # 7	63	
	10	" 16 " 7	112	
	16	Good Plate 7	4 34	
	26	do do	3 85	15 84
		Cr		
		1 N 5 B 7 1 6 Pattern 7		1 47
		Correct Statement		14 37

Mr Clark our foreman says it was not our mistake in making the 7 # Castings he says the Patterns came to him stuck together & he moulded them supposing they were wanted in that way but it is of small consequence to you or us, who bear the loss & we make the Deduction

OFFICE OF

SIMON SCHEUER,

Wholesale & Retail Dealer in

FRESH TEAS. 736

Teas, Coffees, Sugars, Spices,

WINES, LIQUORS, &c.

No. 736 BROAD STREET, cor. Commerce,

Newark, N. J. Oct. 4 1878

Thomas A. Edison Esq.

Dear Sir

Some few days since I sent one of my clerks to see you expressly in regard to making a collection on your acct. but I was sorry he failed to see you.

As I have not heard anything from you since I now write respectfully asking that you send me at your earliest convenience a check, as I am in need of funds, and much oblige

Yours very truly

S. Scheuer

(a)

Newark Oct 5th 1878

Mr T. A. Edison

Dear Sir

We called on you to day for the amt of our bill. We do not wish you to think we are in a hurry but the circumstances under which we are doing business (owing to the suspension of W.B. Douglas) render it absolutely necessary we must pull at the lowest — C.O.D. prices and collect accordingly, consequently we trust you will pardon our seeming haste and remit us the amount of our bill. We are obliged to ask it as we pay cash for all our goods and expence

Respectfully

Kuhne & Edge

Successor to W.B. Douglas

Newark
Oct 5 1780

Kuhne & Cage
bill for furniture

OFFICE OF

SIMON SCHEUER,

Wholesale & Retail Dealer in

FRESH TEAS. 70

Teas, Coffees, Sugars, Spices,

WINES, LIQUORS, &c.

No. 736 BROAD STREET, cor. Commerce,

Newark, N. J. Oct 11 1878

Thomas A. Edison Esq.

Dear Sir

On the 8th. inst, I wrote you as follows:- "Some few days since I sent one of my clerks to see you especially in regard to making a Collection on your acct., but I was sorry he failed to see you. As I have not heard anything from you since, I now write respectfully asking that you send me at your earliest convenience a check as I am in need of funds."

I have not had any response, and thinking that possibly it might have miscarried, I write this.

Please let me hear from you as early as practicable and oblige

Yours truly

S. Scheuer

New York, Oct 11, 1878

Friend Edison:

I want a few dollars worse than the Lord wants 5 convert sinners. Won't you send me the amount of enclosed statement, and thus contribute your share towards saving me from suicide?

Very truly yours
Z. R. Bennett.

New York, October 11 1878

Mr. T. A. Edison

CARDS, BILLS, CIRCULARS, LABELS.

Z. R. BENNETT, Jr.
JOB PRINTER,

Terms Cash. 66 Cortlandt Street.

300 Extracts from Tribune	1 50
300 4 page Pamphlet (which from Tillman)	6 50
	$8 00

Received Payment
Z. R. Bennett

[October 15]

Newark Oct/78

Sir I agare inform you that your a/c is still unsteled this is the last time

F. J. Spurr

Oct. 17, 1878

Please do not forget to send that check, We need it badly for Saturday.

Yours

Partridge & Carter

Phila

WILLIAMS & PLUM,
STATIONERS, BINDERS & PRINTERS,
NEWARK, N. J.

Oct 18/78

T. A. Edison Esq

Dear Sir On the 24th of this month we have 2 notes to pay which will take all the Ducats we can possibly raise. If you can lend us any assistance in the Matter it will be gratefully received. We are sorry to bother you but we are awful short

Yours Very Truly
William H Plum
Secretary

Fort Myers 12/30 78

Mr T. A. Edison

Dear Sir

As I am trying to get my Steamers accounts settled up, you will oblige me, by sending check for amount of enclosed Bill which includes all charges up to date

Yours Respectfully

Capt. W. M. Wilkie

Str. Alice Howard

EUGENE F. PHILLIPS,
MANUFACTURER OF
PATENT TINISHED INSULATED
TELEGRAPH WIRE
MAGNET WIRE
TELEPHONE & ELECTRIC CORDS &c.
PATENT RUBBER COVERED WIRE, LEAD ENCASED WIRE, AERIAL & UNDERGROUND CABLES &c.
W. H. SAWYER, Electrician & Supt.

Providence R. I. Oct 31 1878

T. A. Edison, Esq.,
Dear Sir:
Enclosed find statement to date. If you can remit it will be a great favor. We have a special call for money & won't like to collect all we can. We also enclose bill to Gilliland & Co. Saw Gilliland in Cincinnati & he informed me that you were responsible for the material which was part of some "Electric Pen" arrangement you were in.

Rectfy
E. F. Phillips
W. H. S.

STATEMENT.

Newark, N. J., November 8 1878

Mrs. T. A. Edison Menlo Park N.J.

IN ACCOUNT WITH

WILLCOX & GIBBS S. M. CO.

Dr. *No. 5 CEDAR STREET.*

1878						
Mch	8	To 1 Mdl Oil'd & Leaf				Sent Check for 14 Nov 78
		#250.560	70	00		
"	8	By Cash			10	00
Apr	12	" "			10	00
July	3	" "			20	00
			70	00	40	00
			40	00		
		Balance Due	$30	00		

Madam

Please read your Contract and comply with the terms. as your payments are considerably in arrears and we must insist on settlement of your Earliest Convenience

ESTABLISHED 1820.

Condit, Hanson & Van Winkle.

Importers & Manufacturers & Dealers in

Acids, Dye Stuffs, Chemicals, etc.

Manufacturers of Nickel & Electro Platers Material.

236 Market Street cor. Mulberry.

WESTON DYNAMO-ELECTRIC MACHINE CO

Newark, N.J. Nov 9 1878

789

Mr Thos. A. Edison
Menlo Park
N. J.

Dear Sir

We enclose herewith corrected Statement Nov. 1.

As there was a Special Price made to you, misapprehended by us; we now enclose statement in accordance with the Invoices, with an apology for the Error.

Yours truly,
Condit Hanson & Van Winkle
per Thos. Mead

Corrected

MONTHLY STATEMENT.

NEWARK, N. J., Nov 1 1878.

Mr. Thos. A. Edison

In account with CONDIT, HANSON & VAN WINKLE,

236 MARKET STREET, cor. MULBERRY.

Oct 1	Acct. as per bd		105 74
5	Mdse		4 80
17	"		11 10
19	1 12in Dr. Mach. #453	35	
	Disc 12½%	4 75	306 25
			427 89

JAMES PARTRICK. FRANKLIN S. CARTER.

Partrick & Carter,

PRACTICAL TELEGRAPH and ELECTRICIANS,

MANUFACTURERS OF AND DEALERS IN

TELEGRAPH AND ELECTRICAL INSTRUMENTS and SUPPLIES,

No. 38 South Fourth Street,

Manufactory, Nos. 610 and 618 Filbert Street,

RAILROAD SUPPLIES.

OF EVERY DESCRIPTION.

Philadelphia, Nov 11 1878

T. A. Edison Esq
Menlo Park

Dear Sir = Yours 8th to hand many thanks = Will you have the kindness to send us a check from the firm of Gov & Co = We are sorely pressed on all sides, and unless you can help us, I am afraid we cannot pull through, Will you therefore please do something for

Yours truly
James Partrick
for P. & C.

JAMES PARTRICK. FRANKLIN S. CARTER.

Partrick & Carter,

PRACTICAL TELEGRAPH and ELECTRICIANS,

MANUFACTURERS OF AND DEALERS IN

TELEGRAPH AND ELECTRICAL INSTRUMENTS and SUPPLIES,

No. 38 South Fourth Street,

Manufactory, Nos. 610 and 618 Filbert Street,

RAILROAD SUPPLIES.

OF EVERY DESCRIPTION.

Philadelphia, Nov 14 1878

T. A. Edison

Dear Sir = If you wish to do a friend a favor who is truly in need, please send me the amount due as we are badly off and have got to raise $6000 by the first of December - We are badly off and I appeal to you for help and I hope you will not refuse

Yours truly
Franklin Carter

We are hard up and cannot tell where to turn unless to you

JAMES PARTRICK. FRANKLIN S. CARTER.

Partrick & Carter

PRACTICAL TELEGRAPH BUILDERS and ELECTRICIANS,

MANUFACTURERS OF AND DEALERS IN

TELEGRAPH AND ELECTRICAL INSTRUMENTS and SUPPLIES.

No. 38 South Fourth Street,

Manufactory, Nos. 626 and 628 Filbert Street,

PHILADELPHIA.

RAILROAD SUPPLIES

Philadelphia, Nov 15 1878

T. A. Edison

Menlo Park N.J.

Dear Sir=

Yours of 12th to hand, in reply would say we are glad you have concluded to send us Check tomorrow = We are truly hard pushed and must make up $6000 by next week sure, = If you will do us the favor to send us Check as promised we will do anything for you that is within our power, as we were never worse off than now = Hoping you will oblige

Yr Ever yours

Partrick & Carter

New Brunswick N.J.
Nov. 18th

Mr. Edison Please to find enclosed to forward amount of bill as per receipt and you will greatly oblige

Yours Respectfully
Bassonett & Menger

New Bruns
Nov 14, 78
Barronett & Meagher
Bill #55

Check sent Nov 20
see letter book

CULVER & HERBERT,
Attorneys at Law,
242 Washington Street,

JAMES W. CULVER,
JOHN W. HERBERT, JR.,

Jersey City, N. J., Nov 26th 1878

Dear Sir

The representative of L Bradley dec'd has placed in our hands for collection a bill for $29,38 against you. You will save costs of suit by settling with us before the 5th of December next.

Yours Respectfully
Culver & Herbert

Y. A. Edson Esq

A.K. Holt & Mesirole
Cash on book

CULVER & HERBERT,
Attorneys at Law,
242 Washington Street,

JAMES W. CULVER,
JOHN W. HERBERT, JR.

Jersey City, N. J., Dec 3rd 1878

T. A. Edison Esq, Sir

Our client informs us that the goods furnished Orelland & Co were upon your order and delivered upon representations by you that you was a member of the firm, which if true renders you liable, We are instructed to proceed with suit unless the matter is settled.

Please advise us what you will do in the premises

Very Respectfully Yours
Culver & Herbert

Newark Dec 14th 78

Mr Edwards

Dear Sir

There is yet a balance of six dollars & twenty seven cents remaining unsettled on our books against you it is now drawing near to the close of the year and should like very much to settle up and close hoping that you may be in want of goods in our line we should be very happy to see you or have you favor us with your post favors $6.27

Remain
Yours Respt
G W D E Vaggoner

Newark
Dec 17 28

T.H. DeVoursney

Chem ent
Dec 15 28

Col. Ashley 8 05 75

That photo you promised to send last week has not arrived yet. Please send it this week without fail.

Yours &c

A. Jn Freeman

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

Newark 11th 8/8

Mr Th Edison

Dear Sir

Sir say in your letter of a few days ago if I will send the Rest of your bill due me that I may receive payment in return I do so in this with an explanation in regard to postal card we are so accustomed to receive Checks only from those we do business with and we money to it is quite common with us so we think it our right to receive and send them but we will be careful in the future in your case we now give you a statement just how our Act. stands.

[PHOTOCOPY. ORIGINAL IS IN INVOICE BOOK, CAT. 1161]

6 14 Rec'd

1877 Nov 27 Enclosed 47.77

Nov 27 Enclosed Bill of goods purchased that date and bill Rec'd 61.27

Nov 19 Cash 15.50

Bal 45.77

We ought to have some [illegible] on this bal[illegible] of [illegible] 1.50 [illegible] make the sum total of $47.77

I get only [illegible] 10 Days & 30 on my purchases I would be glad if you would attend to this without any further delay in our matter stand with me on receipt of this just claim as I have not been very urgent with you please close the matter up and receive my hearty thanks

13 Dec

Yours Truly Respectfully

We have been I need money now

Damaged goods [illegible]

Pay for Grand [illegible] 1.20 [illegible] 13 March all good

1878. Edison, T.A. - Employment (D-78-012)

This folder contains correspondence from or about prospective employees. All documents which contain marginalia, are part of a chain of correspondence, or are from significant individuals have been selected, as well as correspondence from individuals who were subsequently employed by Edison. About 50% of the documents in this folder have been selected.

John Cock

OFFICE OF

THE J. R. BAKER M'F'G CO.

Anti-Friction Metal Works,

400 CANAL STREET, COR. OF LAIGHT,

TRADE MARK.

J. R. BAKER'S

Established 1865.

J. R. BAKER, General Manager.

New York, Jan 5 1876

T. A. Edison Esq.

Respected Sir

I was happy when I read your advertisement for hands in this morning. Sir you may remember me Mr. C. Batchler and myself was about the first hands you had in the Tonk building. I was unfortunate to get sun stroke in 1876 and have done very little work since. and want work.

I dont care what work it is how ever humble either at lathe. bench. or any machine so as I have work to keep my mind employed I was always considered a fair workman hoping to here from you & come to work

I remain respected Sir

John Cock

Care J. R. Baker M'f'g Co

400 Canal St.

New York City

J B Bettyman
Jan 6 1878

New York Jan 6th

Mr T. A. Edison Sir

I see by this days paper that you wanted some Mechanics and being out of employment I should like a job very much at the present time I worked for you and Mr Muns in Newark when Mr Bradley was foreman and I leave I gave verry good satisfaction as far as I know

Yours J. B. Bettyman

Care F. Hibbits 8 Spring St

Care F. Hibbits 8 Spring St
Re. By

Newark January 6th 1878

Mr T. A. Edison

Sir I am out of a job at present and I would like to make one at instrument making I have have worked for you five times within the last 8 years

Respectfully yours

L. J. Lator
89 Orange Street
Newark. N.J

P.S. I have worked on Telephones)

Not wanted will keep on file

A. Foubely
Jan 6. 1878

New York January 6. 1878

Dear Sir

Having heard that you are in need of a Signature Instrument, I take the liberty of offering myself for the situation. I believe I can satisfy by Mr Shaw, here and further by you in Newark.

If really you want further information you will have the kindness and favour me with a line.

Yours truly

Aug Foubely

No. 236 East 86 Street bet 1st & Avenue

John Engel
Jan 6. 78

Marion Jan 6/78

Sir

Your Advertisment in the Sun from 6 Jan came to my hand, ben engaged the last 12 years as tool maker in most prominent Watchfactorys in the U.S. and Inventor of the Damascening Machine for Pivel Movements at Present engaged by Mr A. B. Pooly & C. Remarks for manufactuering Dockets Burglaralarm and indicators and as will finish my 22. indicators this week and no more for work for me

No good
C. B.
too old

I am take the Liberty
and ask you if you have
any Shoes for one man
of my Capacite Refere
will be given as many
you wanted from Ten
Lifeth many M. Immu
himself know me as
Inventure I think very
much Patres in yours
in the Scientific American
pleas answer yeas or nos
and tickel other
T. S. Pegel care of
A. A. Fort 55 R.R. Avenue
Newark
or my Residence
12 Broadway N. J. Hatchpatchung
Marion N.J.
Yours Respty
John Pegel

Wm Rea

(Jan. 6 1878?)

162 Madison avenue
Elizabeth N.J.

Mr Edison Dear Sir

In answer to your advertisement I would state I am a Machinist and tool Maker I have done Considerable Work for Mr Paine of Newark on Foundrys & Cin.. Mr Edwin Lyncraft. No 62 New Church Street N. York to Which I Respectfully Refer

Yours
Wm Rea

Send to Mr
C B

H. F. Howe
Jan 6. 1872

New York January 6/72

Mr. F. C. B. Stevens

Dear Sir

in answer to your
order I beg to offer my
services, I have made
telegraph lines, and some
engineering work, for Stockholders
only, an early answer will
oblige yours

respectfully

H. F. Howe

Care Pinkerton &
154 Ft
Melrose
N.Y. City

C. B. Marshall
Jan 7. 1878

Newark Jan 7th 1878

Mr T. A. Edison,
Dear Sir.

Having noticed an advertisement in the Sun, for Telegraph Instrument Makers, I wish to be engaged if you think fit for a machinist and tool maker. I have worked on Watch Machinery and Watch Tools for about 10 years, I worked in the Automatic Telegraph Shop in R. R. Avenue, and also in your Shop in Ward St. I remember the Machine Entitled as I believe is with you can give you reference in regard to my work, if you should require a Tool Maker please answer stating terms &c.

Yours Respectfully
Chas. Schlaeppfeld
93 Wing St. Newark (N.J.)

Please adress
No 14 Newark Street
Hoboken
N.J.

Hoboken Jan
14

Mr. Edison
Sir
Seeing an advertise
in Lusday's Sun meet
that you needed
Telegraph Instrument
Makers, I being out
of employment
would like a
situation having
worked at the
business for a
number of years
To be with respect
John Kilroy

Send for me

John Kilroy
Box 2 1827

Phœnix Iron Works,
W. D. HAVEN,
Proprietor.
SUCCESSOR TO CHAS. CARR.

Trenton, N. J. Jan 7 1878

Mr T. A. Edison

Sir

I see in the New York Sun an advertisment for Telegraph Machine makers. I am out of a situation and was formaly in your employ when in Wardcliff also up with Mr Munn in the upper Shop. Please let me hear from you.

Very Respectfully

Joseph Carr

C W Duncan
Jan 7. 1878

Bridgeport Conn
Jan 7th 78

Mr Edison

Noticed your ad in Sun have marked our telegraph instr for Hall in Boston am a tool maker by trade with Marvin Match Co understand about running mains mag electricity for The Safe Protection Co 262 Broadway (Marvin & Co) So give market me if so with stating pay & if as to ability & refer you to Geo E. Hart Whylens Block Newark Resp Yrs

C. W. Duncan

New York, January 10. 1874.

Dear Sir!

Yesterday I made from my last inspection to Regina, determined to work again so I rather stay in the city while my family, I will back give you my best thanks for your honour

and remain respectfully

Yours

Leop. Laubly

New York the 10th January.

Mr. Edison!

Being without employment at present, I heard from Shore (Sisson Street) who knows me, (having been employed in his business) that you wanted some workmen. I am no regular Machinist, but am brassfinisher by trade but was employed for ~~two~~ one Year in the late Gold and Stock Tel. Comp. Shop, by Mr. Romney, where I made different parts for the printers.
If you should think me fit to be of any use in your shop and you are willing to try me, please send a notice to your
obedient Servant.
Fr. Müller. 23 Chamber Street. New York City.

Unsy
Marion N. J.
March 4th/79

Mr Edison

Sir

I write to enquire if you are in wa[redacted] help. I am a Machinist and accostomed to a variety of work, I have been employed at the water Factory here several years

I would be willing to make myself generally usefull

James Cumming
67 Dale ave
Marion
by Jersey City N. J.

Geo Jackson
Mar 11. 1878

(See T.S.)

Newark
142 Mulberry St
March 11th 1878

Dear Sir
After about Thursday next I shall be disengaged. If you have now any vacancy, I shall be most happy to serve, and hear from you.

Yours Obediently
George Jackson

To T. A. Edison Esq
Menlo Park
N.J.

Pittston Luz. Co. Pa. Feb 1/87

Prof. Edison

Dear Sir

Photograph taken two years ago

Yours &c

Alex. Craig Jr.

Mr. Wm. Craigo

Carman

Please find Craigs
Orignal letter
& pin it to this
& give to me =

Carman
Mar. 1928

[ATTACHMENT]

(See T.S.)

J. A. Mucklo

a library Dr.
Mar. 13. 78

Pittsburgh Aug. 6th 1877

Prof. Elisha Gray Highland Park N. J.

Dear Sir

I do not know
as I ought to spend my time to write to the
editor — I am quite school a good
naturedness the manual of a popu-
lar of one would be kind enough
to give me a little Rubber tube
such objects I am trying to Repeat
and have no time I could not know
any thing about to be a practi-
cal man Electricity, I see in my
favorite study will you I have made
some Electrical machines for my own
use not owing to go to the expense of
buying them, such as Induction coils,
Frictional Electrical machine, Telegraph

[ATTACHMENT]

Instruments, Batteries, and when since it came out I read an apparent Kindred Telephone. I have worked for 8 years in a Watchmaker's establishment but never could anything about the business enough to know how to handle the tools so as to be able to work for myself on my machines. I have studied Electricity on Electricity that I in the applications and I have been trying to invent a new kind of Telephone but have not as yet got just what I want. I have often seen your name mentioned in the "Scientific American" and other papers and have gotten the opinion that I should very much like to become if it possible acquainted with so great a man as you, but I had hardly the nerve to write before. I think that your theory is a decided triumph of genius and I have been trying (before the infringement) to make one. I made it somewhat after the style of the one so much of which description was issued in No. 25. Vol. 37. of the "Scientific American" but have not as yet succeeded in making it repeat what is said into it. It will print the notes on the tin foil but will not repeat the sounds. I do not know equally what the difficulty is. The second mouthpiece (the one which repeats the sounds) has a light spring in the center of the diaphragm of this shape, as of being the dot spring and "B" the spring and point. Perhaps you will be kind enough to tell me when I can find a good description of the instrument as it is liable to many, any defects. I think your telephone is a very fine instrument. But sure is the principal request of my long and tedious letter. There is no other Electrician in Ontario, and such most intently if possible to become an Electrician. Hoping

Yours

[ATTACHMENT]

of course I do not think I shall ever be as great a man but if perseverance and study will do it I shall endeavor to accomplish it. I would like extremely to obtain a position in some manufacturing establishment, if possible, and under such an experienced man as yourself. But to cut it short ~~[illegible]~~ is there any chance of my getting under you? I am handy tools pretty well and am willing to work and do my best and especially at a trade that I am so intimately interested in as I am in this one. I can assure you if you would have no objection to put me with any thing you gave me to do as I would do my best both for the sake of the work and you especially for the sake of my benefactor, for you would be much mistaken if I could but obtain any thing to do under you, I do not to make money but to learn that I wish to get there, But I have taken up enough of your time (if indeed you read this at all) and so will close with hopes for your future ~~success~~ success and hope you will give a thought from your immense investments and studies to

Yours respectfully

Alex. Craig Jr.

At Box, 226,

(Your city)

Dear Sir

I have no opening at present but may want a draughtsman ~~soon~~ so I will keep your name in mind.

Yours

W. S. Davis

Davis Hall Wor. March 25th

Lorchester Mass.

Prof. Edison

Dear Sir

I am a young man, machinist by trade, draughtsman, and claim for myself unusual talent for inventing, and machine designing. If you have an opening I should be pleased to work for you and am willing to undergo any test as to my abilities as an inventor, Age twenty seven, single.

Have been engaged as a machine salesman

Yours Respectfully

Isaac H. Davis

78

Pittston Leg Co. Pa March 28.

Prof. T. A. Edison

Dear Sir

I will be down on the 5th. of April. My Father will come with me and would like to see you. Please drop a Postal if you will be in Menlo Park at that time.

Yours

Alex. Craig jr.

Drop card say we will be here during some part of the day

Plymouth Mass.
April 16th 1878.

Dr. T. A. Edison,
Menlo Park.

Honored Sir,

I beg for a moment of your valuable time, to ask whether you would be so good as to give Dr. Humphrey Davy to another Thursday? That is, find employment, honorable mention and commemoration, for good laboratory for a boy, who is as much an energy, electricity and experiment, of more than ordinary general and practical chemistry, chemical

Dearest and Strongest [illegible]

[illegible] I feel [illegible]

[illegible] I'm scared for the poor [illegible] Pokey was so strong [illegible] had to fight against [illegible] little, or any at all [illegible] milking or school teaching or anything he can get to do in these hard times, without taking it up on books on means or hands, but managing in some way to get mechanical tools and chemical apparatus of some kind together, and devoting every spare moment to his school studies and experiments.

I know that the hardships and obstacles have done good for him so far, because they [illegible] with the facts and given him determination and energy [illegible] cannot have

to see his best years wasted. If [illegible] the Gov. demands the great energy [illegible] and [illegible] all his hopes, and on, and [illegible] last hour, I feel so sure if any [illegible] had at helping hand like Rechnitzoff, he would do something worth doing. And if that hand were yours, Mr. Edison, you would have no [illegible] so faithful and true and [illegible] workmanship as Sheffield, and never any one so attached to you as he.

Your one chance has been an inspiration to have together as have watched your progress, I see that in trying to [illegible] this a fact I forgot to tell you he is now [illegible] I commenced talking about the time you did. [illegible] at the Rotunda. E. R. Washburn Sheffield

Mrs Aldridge, and her most kind & [illegible]
ente have been like a father
and mother to me. I have
[illegible] I could have wrote sooner
or rather if I intend to
[illegible] to you, but as this day, one
[illegible] bell in our
[illegible]
[illegible] of my studies I have
[illegible] inclined to do it have
[illegible] great hopes providing that
I perfect to have [illegible] I trust
must close [illegible] dressing be
[illegible] and send well you
please [illegible] the liberty I have
taken, and believe that another
[illegible] the world are there two back
[illegible] Sellar more sympathetically
[illegible] ardor of your young though
[illegible] take and remained more than
[illegible] with greater joy at your
[illegible] than that of any
[illegible] and

Yours truly respectfully
[illegible]

Mrs S S Mills

49 Saint Hill Ave. Dorchester Mass.
April 17th 1878

T. A. Edison Esq.
Menlo Park N.J.

Dear Sir

I have received replies to two letters that I have sent you (Mar 26th & 29) in which I spoke of myself as an inventor-machinist and draughtsman. Believing that my inventive powers would be of some use to you, and the love of study and the improvement of my mental abilities a benefit to myself is the object of troubling you again with another letter.

I am willing to be examined by any engineer you may choose in Boston as to my capabilities and to submit to any inventive test as regards to mechanism you may choose. I am a fair draughtsman, good machinist in lathe or planer fair at the bench and well acquainted with machinery and mechanism

Have been employed as mechanic salesman, Amt superintendent, healthy, and of good morals.

Yours Respectfully

Isaac H. Davis

Dear Sir = Just at present I am ~~full & want room to work~~
~~with more time will keep your address~~
~~with an opening occur. [illegible] you in [illegible]~~
Edison

Answered

North Adams. Mass.
April 27th 78

Mr Bachelor

Sir. are you in want of any more workmen on the Phonograph?

I am a machinist, used to fine work, and much of my experience has been on experimental and model work. My last place was at Remingtons Ilion N.Y. and I have a good recommendation from them. If you are in want of more workmen, please let me know. that is if you think best to give me a trial.

Respectfully Yours
G. W. Sherman
Box 192

Mrs Baker

Lowell Mass.

Feby 1st 1878

Mr. Edwd Bachelder

Dear Sir, Your letter has been rec'd. I feel sure I can satisfy you with the quality of my work. both Lathe and vice. And I would like to try it, but would like to know if the situation would be permanent. Considering I do give satisfaction and low enough wages for work I can expect. I need not remind you, that it is quite a distance to go, these hard times on uncertainties. although of course you will know but little of me, until I have tried. I would say that I worked one a year on the Type Writer

experimental work, while I was at Remingtons, and most of my work for years has been of that character.

Please let me hear from you as soon as convenient, and if satisfactory, I would like very much to go.

Yours Respectfully
G. W. Sherman
Box 192

New York May 4th 1878

Dear Sir. I am out of employment and desire a job. I have been accustomed to Brass finishing, sewing machines and general work. Can refer to J. & W. Lyall 540 W 23rd St

By replying you will oblige

Resp Yours H. Benton

361 W 22 St

Shop Trade

Referred to

Butcher

Buffalo 1878

Sir:

The same reason not only giving your genius but although your character. Just encourages me to write to you this confidential letter. — Had I in time known who you were as you showed your photograph in Buffalo I would have found the way to meet you, but than I was only a half a month in Amerika. Therefore I am compelled to write and beg you to excuse me that I share perhaps your costly time with my letter. Excuse also my bad English, for I am so short time here and have more to do, than only to learn the language. German I would write a wider

style. In short:
My object is to obtain a
place as an assistant
or work wife, and that
therefore: Now 4 years I was
physician in Germany and
had the best possible success.
the given testimonies
i. e. I satisfied my patients
and performed a good deal
of great operations with success
in a country place. I have
the best testimonies of the
med. faculty of Berlin and
resume my profession as
far, as not having to fear
the concurrence of the
best ones in it and should
therefore hope to make
likewise new progress
after having left Europe
for dissension with my
father in law, bad nature,
theles the medicine as
pure science inspiring, was
and remained till today
hateful for me in its
practical aspects, because
till today I could bear to
see a patient die without
the power to help him.

V.

Or the other hand, if
was every prince may seating
for the acquisition of
knowledge in natural sciences
and yet it was formerly as
my intention perhaps
by my father, I would prefer
to pay the stands in study
to that science. Humboldt
did so I would it in a
more modest style. I can
show you six in relation
to whom Humboldt the most
brilliant testimonies from
a gymnasium in Berlin,
but that would not be a
witness before you for I have
that I have much forgotten
much more to learn
a little patient nevertheless
I hope to be able to
prove before you. For example
I make a speculum of which
the principle I believe you
using something in mechanics
and so little the instrument
alone will interest you.
I will send you it on request.
I think it may interesting
and will take a photo of it
and I have German thoughts

why what is able to be
patented. What do you
mean of my idea that
the complete rail road
ought to be a hanging
one not needing to be
horizontal. If the idea of
the engine would be
more compressed, the one
track according the will
of the cars upon which
they move. If I had the
honor to meet you I would
you explain how air-
ways must be possible
without railroads how
three steam or compressed
air, form I think a telephone,
perhaps telephonograph
across the ocean
I have not the money for
trials neither the acquain-
tance which could be
interested in such ideas.
Sir: If you would me for
assistant and paid me
a salary for I could live
with my wife in a mo-
dently respectable manner
I would devote you
my life. If you would

reference, I can give
some of honest
men in Buffalo which
know me for years like,
wise some weddings in
German merchant papers
which although show
somewhat talent I think.
Should you not agree
at all with my perpos-
itions, what I would
much rejoice, I beg you
for excusion because
some people here would
find my ideas ridicule
and the patent should
never find in his pig-
ment so little it really
is.
Should you what I hope
a little, agree with my
propositions I would
introduce myself on
call to your home.

With high esteem

J. N. Harshwig
38. E. Huron St. Buffalo.
N. Y.

N.Y. May 18 1870

T. A. Edison Esq
Menlo Park N.J.

Dear Sir

A friend of mine (Mr Bruns) wants the agency for sale of this trap for State of N. J. What are your terms?

Yours Truly
M. W. Goodyear

I am personally acquainted with Mr Bruns whose responsibility and undoubted capacity as an active salesman in this direction I take pleasure in vouching for — By all means give him the agency! — Yours Truly

J. H. Burnett

By the way what do you call this one? Photo of?

Jersey City N J May 31 1881

Mr T A Edison

Sir - I understand you are in want of a toolmaker. I have had an experience of twenty five years as a jeweler and jewelers toolmaker. I am anxious to obtain a situation as toolmaker can furnish good references if necessary. If you wish I will call and see you. Please answer by enclosed postal card and oblige

Yours respectfully

A W Laken

Mr E—

ICE Ex machinist—no use for tool makers

Ansonia Ct June 8th 78

Ans 2 June 8th 78

Replied to El Stowell
but not to Chas

Ansonia Conn
June 8th 1878

T. A. Edison
Dear Sir

You have come in due time, well knew you were busy never can you when you are not. I felt anxious to see the light divided, all the world is astir now about light.

I would like to ask you if you have not a situation for my Brother, of whom perhaps you may remember I spoke to Mr Russell when you were in his room, If you are in need of a competent, reliable man he is all of that. He has letter from Mr Hamner, Mr Prescott & others engaged at U.

Edward Stowell.

17 Green Ave
Brooklyn N.Y.

P.S. [illegible]

P.S. June 11th I called on Mr Weston Simon today but upon inquiry found I do thought it would send this out to you & shall be happy to hear from you

Rather afraid
Edward T. Powell

Buffalo 4/6 1878

Mr. T. A. Edison
Menlo Park N.Y.

Sir.

Receipt thanks for your kind answer. I appreciate the existing conditions of things, I'll wait, hoping you will remember my letter whenever you need an assistant. Without conceitedness I think I can carry you a step or a better one. Meanwhile I'll can you somewhat perhaps my qualification.

Yours very truly

F. Harling
38 E. Huron St.

Pittston Pa June 19 78

Craig Letter

Ans'd June 20 78

Pittston. Luzerne. Co. Pa
June 18th 1878

Charles Batchelor Esq

Dear Sir I have no apology to offer for troubling you with a letter but my anxiety about my Boy. I have just received a letter from him telling me that he is discharged since that he will be Home on the 20th now in all the letters I have had from him he has invariably alluded to me of your kindness to him and thought even at the risk of being troublesome I would write too you to see whether it had not been because of some imprudence of his own he was discharged he is young and probably foolish a thoughtless at times and

never having been from Home before it has naturally made me uneasy a little about him. I know he feels badly about leaving. I hope you will not think it impertinent in me writing to you about him. I know people are discharged every day and their Employers don't feel it their duty to give any reason for doing so and that is their right too, I hope you will not think any such feeling exists in my mind I my write you from the belief that you have been kind to him and that if there has been any thing wrong on his part you would let me know — so that I would be forewarned and try to amend him if I could if any thing was wrong, when at Home he was considered a pretty fair kind of a Boy a Boy

for nowadays hoping to hear from you I remain Yours

Respectfully Wm Craig

Pittston June 22nd 1878

Chas Batchelor Esq

Dear Sir your favor of the 20th received once though it requires no answer I thought that in gratitude to you and Mr Edison I would write again and tell you that the kindness in taking my Boy at all where he would have the opportunity in serving under such a distinguished Master I cannot tell you in words how highly I prize it and how lonely I am myself at the loss of it that he would so thoughtlessly throw it away seems strange to me. as I look at it a position in such an establishment (if only to sweep the floors) where there is so much practical science being developed every day is some thing to be prized. the fault you mention

No Date

in the Boy are just what his Mother & I have dreaded we have seen it coming on him for the last year or so I hope when he is a little older it will pass away he being in the transition state of life at present from what I have said you will see that I have no sympathy with a dainty fingered Boy nor then either in my Business I cannot see part of it too mean for me to do and I certainly would not tolerate it in others. his Home teaching hence encouraged such foolishness his Mother is as much against the like as I am. and now Dear Sir though I know well that to neither you nor Mr Edison my power will nor my ill will is of any account. yet in my journey in life I have received so few disinterested acts of kindness that in the present case I cannot refrain from thanking you

both I do not like to trouble Mr Edison by writing my thanks to him I hope you will tell him how grateful I feel for what he did and how sorry I am for the loss I hope you will not think me intrusive I feel just as I have written and could not keep from saying it to you and can say it all the **peace** that I will probably never see you should I not I will always hold you both in grateful remembrance I remain yours

Respectfully Alex Craig

Pittston June 22nd. 1878.

Mr. Edison

Dear Sir

I don't know as I should dare to presume to write to you again but I hope you will read this and believe what I say, with a congenious smile to me. I have heartily repented what I did with myself since I left there to think I was so unfriendly and rude to you.

My parents are now living in Scranton United States but I heard recently quite accidentally as I was walking in Mauch Chunk that they would have to appear there I wrote to you again. I know now when I look back on my conduct while there that I wasted my time and am most heartily ashamed of myself. But as I am a changed boy since I have come home to our home and my parents pets. I know you are one

every advantage while you are and I have cured
my self since I think with a good deal of
myself by promising [illegible] I never a-
ing Botany with Grower to give you a song
do what I say sir but I would avoid it if
necessary that if you will but try and
[illegible] for a short time that you never
have the slightest opportunity of finding
my parent with me. If you but know
how ardently I do pile and how strong my resolve
is to do right in the future I think you
would relent and [illegible] I am so I have acted in
[illegible] since I came away
I think I have an honorable claim to ask this
as I believe and after the way in which I
have acted [illegible] if you will but
[illegible] again I am sure that you will see
in a very short time how repentant I
am will have much I will strive to please
you. I ask this more for my parents sake
than my own as they seem so pleased very
kindly about it and I do hope that you
will take pity on me and consent to
try me again. Now sir every word I have
said is true - and I hope you will be
[illegible] me. Do try and come I
do not want to justify myself in the
slightest but I will explain that to you.
I went up to Nicholson after my work
was over and forgot them but as soon
as I reached home I remembered the
and started back down immediately for
them but Mrs. Bird told me that the
priest of Jesus did not go his Monday
morning at 10.13. so I did not go back
but made up my mind to go down on
Sunday afternoon and get them as
I had in plenty of time for Monday
morning I learnt that you had not
been to Railway where of course they
could not come then Monday
that. Now that is the simple plain
truth and I hope you will believe it but
I know I did very wrong to forget them
and was very very afterwards for it.
I have now told you the way already to

will a top. But as I hope my [illegible]
what I have said must still prove to me
again in [illegible] you may rest assured that I will
work with all my [illegible].

Yours very truly

Alex. Craig Jr.

Lynchburg Va June 30 1878

T C Edison Esq.
Menlo park N.J.

Dear Sir

I have been advised to write to you for assistance in the matter of employment of some kind of which I am in need. I have been assured that you are a gentleman who would understand my peculiar case and that is my apology. Dr J. R. Buchanan No 1 Livingston place. - Mr Allen of Brown & Allen patent agents &c. - Prof. Thurston Stevens Institute and R. H. Buel 97 Broadway are gentlemen in ~~your~~ N.Y. city who know me more or less intimately (in the order written) and would give you any information you required about me

Probably however the best endorsement to you is the fact that I am the inventor of the "Howard experimental air engine." This engine fell into bad hands and was ruined - I fell with it. Thurston & Buel both tested the engine and know all about it - except its tragic end.

Assuming that you have a use for an engineer of fair scientific knowledge and practical experience I write in hopes of obtaining employment

As a mechanic I am rather slow but accurate and am quick to catch an idea. It's doubtful however if I could serve you much in fine electrical mechanism as a mere workman since I am not a regular mathematical instrument maker. Mr Buckman can inform you best in regard to my honesty.

My weak points are, a constant mental activity that outstrips execution and a continual striving after perfection. This unfits me for taking charge of a shop where 'well enough' in often best let alone. At Midvale where I was the Engineer the shop details were left to the foreman but I got up a system of tools that nearly doubled the capacity of the lyre mills 2d. I cannot drive men. I have a failing of thinking people fair and honest and my first impression is always to believe a man's word I never think of exacting guarantees. This is the reason of the failure of the Howard engine 3d I have a weakness toward the fine arts. If you have any use for such a poor stick I would like to be employed. Even as a mere clerk in a position of trust I could serve you well.

Have been trying here to put steam on common roads but my company could not be kept up to the first machine. Since, having no other employment I have been building (and improving) small boats. Nothing can be done however in this country and my only desire is to get out of it.

Hoping to hear from you

I remain

Yours Truly

C. P. Leavitt

P.S. Am 36 years old with a family do not dissipate – Never get my mind off my work – a regular old shoe – – been writing for Detroit Free Press a bit

Newark July 11th 1875

Thos A. Edison

Sir Beaming on our acquaintance. I take the liberty of asking a favor from you I am bankrupt and I want employment. Through your influence I can obtain it. I would desire you to write me a letter to the Supt of the Met. E. R. R asking him if possible to give me a situation on the road. you know my capabilities &c. do this for me it will cost but little of your time and be of invaluable benefit to me

I am very much in need of employment — and very anxious to get it. I am not as ambitious as I have been poverty knocks all the ambition out of me I am willing to accept almost any position and anything to keep the wolf from the door or out of debt —

Geo W Caldwell
89 Walnut St

Please lend me one hundred dollars

(see Time Sheets Sept. 16) (Aug. 28 1878.)

153 East 61st St
New York City

My Dear Edison

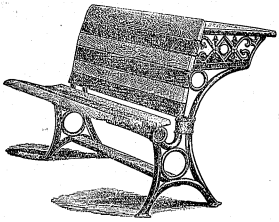
I have been unfortunate enough to lose my position with the G.R.S. Co and am now on the jagged edge.

Can you do anything for me? Can you give me work in your office or laboratory, even temporary work that will pay enough to keep me going till I can do better.

Please write me at your earliest convenience and oblige

Yours respectfully
John H. Knight

Do you think you could get me on the Elevated R.R. to look after their Signals?



JOHN B. SHERWOOD,

MANUFACTURER AND DEALER IN

SCHOOL FURNITURE,

CHURCH AND HALL SEATS,

SLATING FOR BLACKBOARDS,

SCHOOL DESKS and SEATS, GLOBES, MAPS, INK WELLS,

70 STATE STREET,

Chicago, Sept. 17 1878

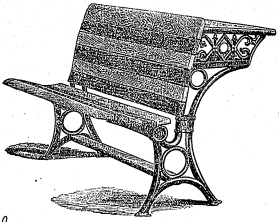
Mr. Thomas A. Edison,
Menlo Park, N.J.

Dear Sir:

When I found that I had really missed seeing you on your way home, I regretted that I had made my call so short the morning I saw you at the Grand Pacific. The fact was, I was a little afraid of boring you and so came away when I had received the information I wanted most — expecting to see you, later.

I will tell you, briefly, what you can do for me. I want to get into a place where I can learn something of Natural Science in the branches of Chemistry, Physics, or Mechanics. I care little what the work is, provided that it will, sooner or later, give me that chance. I know a little of these things not a great deal, but enough to enable me to take a live interest in them, and to be anxious to learn and use my knowledge as I get it.

I have just received a letter from my friend Prof. A. H. Sabin, of Ripon, Wis. — He is the man who taught me what I know of Chemistry; I was his Laboratory assistant one term — He says it will



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70 STATE STREET,

Chicago, ... 187

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be a rare thing for me, if I can get a chance to work for you in any capacity. Well, I did not need to be told that. I have had plenty of time to consider, and if you can make me any offer which I can accept, I am entirely at your service.

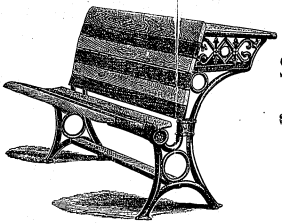
Hoping you will receive my letter half as kindly as you did myself, I am,

Faithfully yours,

Charles Wirt.

70 State

Chicago



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70 STATE STREET,

Chicago, Sept. 25 1878

Mr. Thomas A. Edison,
Menlo Park, N.J.

Dear Sir:

Yours of the 20th inst is received. Your offer to put my application on file and give me a chance in case of a vacancy is gladly accepted. I will willingly wait as long as may be necessary for a chance under your employment. I do not forget that you are almost wholly unacquainted with me and I do not expect that you would care to make any permanent arrangement with a fellow whom you do not know. When you can give me an opportunity, I will come to Menlo Park on my own responsibility, and take the risk of your wanting me to stay.

With many thanks for your consideration

I am,

Faithfully yours,
Charles Wirt
70 State.
Chicago.

T. A. EDISON.

3

Menlo Park, N. J., Sept 30 1878

Joseph Freeman
Windsor Locks Conn

Have written you to come immediately for situation. Be prepared to start at once.
T. A. Edison

14 50 50

8, 16
8/ 14

T. A. EDISON.

(Sept. 30, 1878?)

Menlo Park, N. J., 187

Windsor Locks Conn 2

Mr Edison

Will arrive Thursday morning

J Freeman

4 pm.

(See Twice Sheets June 14)

Newark Oct. 9th 1878.

Mr. T. A. Edison Esq.

Dear Sir:

Having heard that you are busy and in want of men, I respectfully apply to you again for work. I always served you faithfully the time I was with you and if not for a little difficulty I had with Krusie I would most certain be with you yet. I think if you talk to Krusie, he will have forgotten all by this time, Hoping

to hear from you I remain Sir

yours

very Respectfully

Albert Olstrom

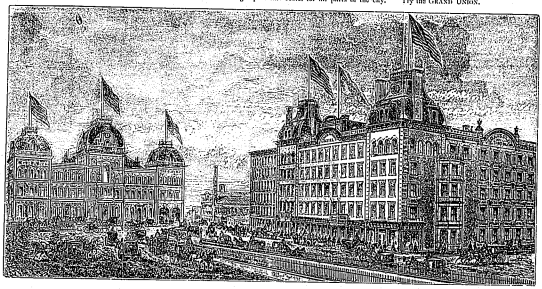
73 Lawrence St.

C/o Mr John Greville

Newark

Important to Persons Visiting New York.

GRAND UNION HOTEL, opposite Grand Central Depot. Baggage taken to and from this Depot to Hotel free. 350 elegant rooms. Elevator. European Plan. Rooms for single persons only $1.00 and upwards. Elegant suites for families. Restaurant and Wine room supplied with the best. Prices moderate. Cars and Stages pass this Hotel for all parts of the city. Try the GRAND UNION.



GRAND UNION HOTEL,
OPPOSITE THE GRAND CENTRAL DEPOT, NEW YORK.
Fourth Avenue, Forty-first and Forty-second Streets.
W. D. GARRISON, MANAGER.

New York, Oct 14th 1878

Mr Edison,

Sir,

Allow me the privilege of an Introductory Letter to you.

I presume you will remember me in connection with the "Automatic Telegraph Company" as being Employed in the "Perforating" Department.

I am now in need of something to do, and would be pleased to accept of your Influence in obtaining Employment.

Have you something in your mind.

Department of Industry that I could
have my hand to. Hoping this will
meet your favorable attention.

Respectfully
H. H. De Groff
610 Second Av.
N. Y. City.

Mr Oct 15 74
W H Schuff
Ans Oct 19 74

JOSIAH F. PATT, President.
UNITED BANGSTER, Treasurer.

JOSEPH L. HAYES, Secretary.
JOHN THOMPSON, Superintendent.

INDUSTRIAL EXHIBITION BUILDING.

INDUSTRIAL BUILDING, HUNTINGTON AVENUE AND PARAMENT STREET, BOSTON.

MASSACHUSETTS CHARITABLE MECHANIC ASSOCIATION.

THIRTEENTH EXHIBITION OF INDUSTRY, SKILL AND ART.

Boston, Octo 17th 1878

Mr Thos A. Edison Engr

Sir

Mr Wm Tews who is now running the engine at the Mechanics Fair and which Father sold to you Tuesday is very anxious to get the chance of running it at your works. he is a steady Honest faithful man and has given us entire satisfaction. Father will write you soon in regard to him.

Yours truly,
C. H. Brown Jr.

Write Mr Tews & tell him to come

Richmond Va Oct 15 1878
No 811 Marshall St

T. A. Edison Esq
Menlo Park N.J.

Dear Sir

As you were so kind as to state in reply to my application of June 30 from Lynchburg Va, that you would let me hear from you in case you needed another machinist or Model Maker I take the liberty of of writing again partly to change my address as above & partly to renew the application. Of course I have no right to bore you but trust you will bear my case in mind

Very respectfully
C. P. Leavitt

JOSEPH H. SMITH, President.
J. G. LYONS, Vice President.

OFFICE OF

The Citizens' Insurance Company
OF
NEWARK, N. J.
No. 443 Broad Street.

H. H. SCHENCK, Secretary.
H. M. RHODES, Treasurer.

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Newark Oct 17 1878

Friend Batch.

I would like to work in with the Electric Light Co. out down at the Lakeside. I see that you are going to use large engines to generate the electricity — and if you have large engines you will want competent engineers to run them. you are aware that I am an engineer of much experience and if there is any chance for me I wish you would think of me and recommend me for the place. I am having a very hard time to get along. I am only temporarily employed now and am making some drawings for the Frankenick gas machine

Co. I would be under many obligations if you would attend to this for me. I would have written to Edison only he is so busy that I am afraid he would give it no consideration or perhaps report it to his secretary who does not know me and he would treat it as hundreds of other letters he receives. I am delighted with the news of the bizzy and still more so to see there is no Prof Johnson about it. I think he would kill it.

Yours etc
Geo. H Caldwell
88 Walnut St

Microfilm Copy 78
Caldwell
Acted in for Engd

Answered by Batchelor
Told him I would try and get
it for him if he could come
for $2.75 per day

Joseph F. Paul, President.
Oliver Brewster, Treasurer.

Joseph L. Bates, Secretary.
John Thompson, Superintendent.

Exhibition Building, Columbus Avenue and Pleasant Street, Boston.

MASSACHUSETTS CHARITABLE MECHANIC ASSOCIATION.

THIRTEENTH EXHIBITION OF INDUSTRY, SKILL AND ART.

Boston, Oct 22nd 1878.

Mr Edison

Dear Sir

Having proved Yours of 21st
enclosing my Lamps I will
say I shall will Come in Two
weeks for 10 or 12 of one & Leaving
Orders to Have you further instructions
there to be to Call & Deliver
Yours Respectfully
Jos. Paul

Engineer 19th & Mechanic Association

Easton Pa.
Oct. 25 78

Henry M. McKinney
Rec'd Oct 30 78

Easton, October 25, 1878

Thomas A. Edison Esq.

Sir,

In reading an article in the November number of Scribner's Monthly the thought occurred to me that you might have use for a Chemist in your laboratories. If such should be the case I should like to suggest myself to you for such position.

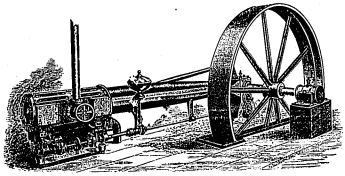
I have taken the course of Mining Engineering and Metallurgy at Lafayette College from which institution I was graduated with the degree of Mining Engineer, after which I then continued my studies in the chemical laboratories receiving at the end of it the degree of Analytical

Chemist. I enclose your letter of recommendation from Dr Thomas, Mr Drown, Prof. of Chem. at Lafayette College, and Secretary of Am. Soc. of Mining Engineers to show I was an assistant for a year, also from Prof. F. Prime Jr. Prof. of Metallurgy at Lafayette, and of the State Penna Geological Survey, and also (if required) from Dr Rossiter W. Raymond U.S. Commissioner of Mining Statistics.

If you should have need of such a person I hope you will bear his in mind.

Yours truly

Henry M. McIntire
#1336 Washington St.
Easton, Pa.



C. H. BROWN & CO.

Manufacturers of

AUTOMATIC CUT-OFF

STEAM ENGINES.

Works Main Street.

Fitchburg, Mass., Oct. 30. 1878.

Thos. A. Edison Esq.
Menlo Park
N. J.

Dear Sir

Since making application for situation as engineer at your Works I have heard nothing from you.
Should be pleased to hear from you soon as the exhibition will close this week.
If the salary mentioned by me is not satisfactory would like to have you set a sum which you would be willing to pay.
For other information as regards character and qualifications respecting me refer you to Mr. Brown.
Hoping to hear from you soon I am

Very Respectfully Yours

Wm. Sawyer

Easton Nov. 1st 1870

Mr T. A. Edison

Dear Sir

Your favor of Oct. 30th to hand.

I should be willing to serve you at the rate of Fifty Dollars ($50) per month.

I should try my best to please you, and think I should succeed.

Truly Yours

Henry M. M. Fetrie

Better come on

Easton Pa
Nov 1 78
Hiny m me Intire
and Nov 4 Told him
to come q

John H. Porter
Grosvenor P. Lowrey
Geo. Hughes Soren
Chas. Francis Stone
George S. Hamlin.

P.O. Box 1836.

Porter, Lowrey, Soren & Stone,
Attorneys & Counsellors at Law,
No. 3 Broad Street, (DREXEL BUILDING.)
New York, Nov 2nd 1878

My Dear Edison:

Enclosed will be found a letter from Mr Dickerson to Mr Soren introducing Mr Chas Manning on high terms.

Mr Manning is an applicant for the position of engineer to run your new "Brown" engine. He has understood from Mr Brown that some person to whom you have made an offer will probably not go; and learning of this Mr Manning sought Mr Dickerson for the means of an introduction to you and fortunately found that Mr Dickerson was not only well acquainted with you but with ourselves.

Mr Mannings address is, Chas Manning, 8 Bow Street, Boston, and any communication that you may think proper to send him there will find him

Very truly yours
G. P. Lowrey

T. A. Edison Esq.
Menlo Park N.J.

[ENCLOSURE]

Law Offices of
Dickerson & Beaman
No. 21 Lewis Jennings Building
City Hall Squares
New York Nov 2nd 1887

Edward N. Dickerson
Charles C. Beaman Jr.

My Dear Sir.

Mr Cephas Manning a friend of mine brings this note. He wants to go with the new system to Texas, & I have told him to explain; but he is the best man you can possibly get, & I think you'll all be mighty

Yours
Edw N Dickerson

Easton Nov 5. 78

Mr. Edison Esq.

Dear Sir.

Yours of 5th inst. just received. I shall, nothing preventing call at your laboratory, as soon after 1 arrive by R. 9.49 Sell. train as possible. Upon Wednesday Nov 6th

Truly Yours

Henry M. Ashe Jr.

CURT W. MEYER,
OPTICIAN,
Importer & Manufacturer of
Philosophical Instruments,
AND JEWELLERY,
[illegible]
New York.

New York, Nov. 11th 1878.

Thomas A. Edison, Esq.
Menlo Park, N.J.

Dear Sir:

Not having heard from you since our interview on the 6th inst. I beg to state that I shall have to decide about my future steps within the course of a week. I should be pleased to call on you once more and talk Matters over more thoroughly, if you will kindly appoint the time most convenient to yourself or inform me wether or not you have already formed your decision.

Yours
Most respectfully
Curt Meyer.

CURT W. MEYER
OPTICIAN
Importer, Manufacturer of
Philosophical Instruments
Chemicals &
Fine Chemical Apparatus
Long Distance Telephone
Bell 1111

New York, Nov. 13th 1878.

Thomas A. Edison, Esq.
Menlo Park, N.J.

Dear Sir:

Your favor dat. Nov. 12th received & contents duly noted. I enclose an autobiography of my past course of study etc. etc. – It may interest you at some hours of leisure. – My services may be practically utilized in your establishment at your future times, if you would please bear in mind my previous expressed desire.

I remain most respectfully

Yours
Curt W. Meyer.

Rec'd Nov 18-78
A. J. Dempsey
Fireman
Ans'd Nov 18-78

New York
Nov. 18th 1878

Mr Edison.

Sir Considering that you will pardon me for intruding on your valuable time. I would like to run for the position of Fireman. I see by to days Sun that you have hired an Engineer from Boston. I understand running an Engine as well as Firing. I was a Fireman in the U.S. Navy for 3 years. I also had charge of Hunt (?) Boilers. Six Cylinder. built under Kelley's patent for General Oliver of Wilkes Barre Pa. for whom I worked for 4 years. I am strictly Temperate in my Habits. married. Age. 32 I am conversant with Machinery in general. O Mr Edison. Grim Death snatched my only child from me about 3 months ago since then I have been out of employment. The Wolf. and the Wrinkle

is now at the Door and the
Future looks dark very Dark
Sir should you give me
employment I assure you I
will have nothing wishome to
Promote your Interest as far
as will lay in my power I
can give you first class city
References. Sir trusting that
you will pardon me for taking
the liberty of writing to you
and hoping to hear from you
at your earliest convenience

I remain yours
Respectfully

A. J. Dempsey

1323 — 1st Ave
N. Y. City

P.S. Sir I enclose 3 stamp for return postage.

A. J. D.

Transcribe
Nov 1 '84

Thos. A. Edison Esq.

Dear Sir

If you need the services of a skilled engineer for your "Brown" engine, I should be pleased to serve you in that capacity. Can also render assistance in lining shafting, repairing &c &c.

Hoping for a favorable reply

I am

Very Respty Yours

H. W. Mitchell

November 18th 1878.

Mr. Edison

Menlo Park.

Dear Sir

I am a first class Photographer & Photoengraver also a thorough Electrotyper & plater in all its branches. I have worked in Elkingtons in England & Rieck in France & can do any kind of work in that line. I can also speak fluently German, French and Spanish & can translate from any of these languages. have you any employment for me in your establishment at a moderate salary?

Your early favor would oblige

respectfully yours
H R Cassel
1261 Broadway.

See you best of success.

NY Nov 18.76

H. R. Cassel
1261 Broadway NY

Answd Nov 20 told him
to write again in a
month.

Milton Nov 18th 78

Mr Edison.

Sir

I take the liberty of writing these lines to you hoping I do not intrude. Cannot you assist me in a position in your Machine Shop or to give your Boilers Inundation that you have purchased the Brown Engine that was used in the Mechanics Fair at Boston for your Laboratory at N. J. I am a young man 23 yrs old and a thorough capable and trusty Engineer having had 10 yrs experience I have run a Putnam Harris Corliss and Common Slide valve Engines owing to depression of Business I have been off of work 14 months and am dependent on my father for support. I will give you good References if needed if you could help me to work you will do me a great favor Please dont throw this aside but

be kind enough to answer this note
and oblige

Chas. H. Kelly.

Milton.

Box 158 Mass.

Will be in Mass
Nov 18-98

Chas H. Kelly
Wants job as
fireman
Wed Nov 18 98
No vacancy

Dickertown. N. Jersey
Nov 22/78

T. A. Edison, Esq.

Dear Sir.

Yours in reply rec'd. Sorry my letter came too late. But in case the one engaged should not prove satisfactory, please consider my claims and as an applicant for the position. With over 25 years practical experience half of the time in New York at 273 & 477 B. Way I think I could meet your requirements. Refer to A. Bogardus 842 Broadway as to

professional acquirements Whatever The depressed state of trade has told on our profession I am willing to make myself generally useful

My engagements terminate here Dec 1st My address will be here until Dec 7th

Expect to visit my Brother Col Hope at Roselle N.J. and may come the first week in Dec. to see you I feel quite an interest in your great discoveries is there nothing you could give me to do outside of Photography (i.e) in exhibiting your discoveries or any thing I could do to assist you in to earn my living

Please consider my application and if possible give me a favorable reply

Begging pardon for intruding on your valuable time

Any thing you can do I will be gratefully appreciated by

Yours very Respectfully
U.W. Hope
Jackstown New Jersey

P.S. I was at Middletown N.J. the past year Business declined. I then managed concerts for Camillo Urso company. Mollenhauer in charge under full Hutchinson Family, so that outside of Philadelphia I have had some experience.

I endorse ~~you~~ recommend from well known Musical gentlemen which please return to me

Respectfully yours &c
E.M.H.

Prof. Emil Mollenhauer
Care Hutchinson
Philadelphia

N. Y. Nov. 22. 78.

Dear Sir

I beg to acknowledge receipt of your favor of yesterday in reply to my application for a situation as Photographer &c and knowing by the inclosed that you wrote the letter I take the liberty to request you kindly to remember me as soon as the vacancy occurs. By doing so you will greatly oblige

Dear Sir
respectfully yours
H R Cassell
1261 Broway.

Seckerlown N J
Nov 26/78

Mr T. A. Edison
Dear Sir
Your of 23d at hand
Please be so kind as to mail me the testimonial dated "To Whom it may concern" signed by L L Ross" enclosed in my letter written yesterday 22d and
Oblige Yours truly
G W Hope
Seckerlown
Burlington Co
New Jersey

Boston Dec 2. 78
Miss (?) H A V Blandford
and Dec 4 78

Boston Dec. 2nd 1878.

Thomas A. Edison Esq.

Have you in your laboratory any work for a lady. I would like to obtain a position where I may be useful in writing upon the door to the Recent Advancements of Science.

You are a perfect stranger to me & purchaser may read my letter or journal or attend lecture, but take time to read it all, yet I shall trust to letter because may be mine.

My idea is this, to work where I can give practical knowledge & time is so valuable to work merely compensation, any work, tools & machinery I can not say I am ignorant of it & an explanation is

not called for, hence I simply ask
can I obtain anything to aid the you
working classes of Astrology? whether I
can fill a position of act, trial, can
only prove therefore am willing to give
time for trial, thus prove not only to
yourself but myself if I am of benefit
to your market, or am not.

Ever truly fully yours
J. John Frank
C. A. F. B. Buckland.
7 Netherton Place.
Boston
Mass.

MPDec 31 78
H H Lawell
No reply

N. Y. Dec. 30th. 1878.

Dear Sir

Mr Hollingshead electro typer, tells me that he is making experiments to copy the tinfoil of a Phonograph by reproducing it in copper, thin but strong enough for long wear. I do not remember whether I informed you that I was a thorough expert in all Galvano plastic manipulations and that I had worked with the Elkingtons in Birmingham for a number of years, I consider myself as capable as any one in this line and if you are making a division of reproducing the tinfoil in coppersheet I beg to say that I will positively do it. I can deposit by the Batteries

a copper sheet as thin as the one sample I enclose or as thick as wanted. My copper is very pliable and will not break by simple bending. Should this, together with Photography and engraving induce Mr. Edison to engage me sooner, I should be glad to come out at your desire, if not of course I have to wait till you are ready for me.

Waiting the favor of your reply

I remain

Yours respectfully

J. R. Cassel

1261 Broadway,

THE GRAPHIC COMPANY.

THE DAILY GRAPHIC, $12 a Year.	39-41 Park Place, New York.	PRINTING In Every Variety.

New York, Dec. 31. 1878.

My Dear Griffin: — See here, I'm not fooling about that boy; I want him to come & work for you anyhow. Give him enough to board him, & improve his condition as soon as practicable. In that way you can find out what there is in him & what hole he will fit. He is exceedingly bright & smart, & I'll vouch for him. Give him $4 a week to begin with & let him start as soon as may be. Then give him a chance to better himself. Give my love to Edison, & accept my thanks for your friendly interest.

Very Truly W. E. Coffin.

Ten years of age I took considerable interest in my fathers electro-plating establishment, handled tools with his permission and watched with attention the action of battery currents, the deflection of the magnetic needle etc. etc. With the first lessons in natural philosophy in school, devoted all my hours of leisure to constructing apparatus of my own, such as I had seen in school, illustrating the action of lever, pulleys, centre of gravity; constructed fountains, air-pumps, camera obscura, electric frictional machine and others. — Father observing my activity supported such by giving me all information necessary, he himself, being thoroughly acquainted with the laws of nature, had a fine collection of philosophical apparatus on hand, besides a complete chemical laboratory. He also instructed me as to preparing various electrolytic fluids, such as required in electro gilding - silvering platinizing - steeling etc.; also taught me the art of photography, when in its earliest state of development. the negatives were then produced on paper, later on glass. Being much interested in this latter study, soon constructed my own camera, according to the large one in fathers use, which I was not permitted to handle, being an expensive apparatus. I finally produced

pictures of everything that was alive around home; yet, they had to be patient enough to endure the long time of sessions, necessary on account of the impure chemicals applied as well as the imperfection of the camera itself and the light. –

After leaving the so called Real-School when 14½ years of age, was brought to some of our most recommended establishments Dr. Emil Stochner and F. Schadewell in Dresden (Saxony) to learn the manufacture of our various physicophical instruments & machinery. Obtained a general knowledge of the most excellent apparatus, such as are used for illustration in our Institute of Technology in Dresden (Polytechnic School). These instruments were send for repair and reconstruction after nearly each time being used. I became acquainted with the necessary tools in Galvano-Surgery, Electrolysis & Electro-Therapeutics, consequently was appointed to attend some of the most interesting galvano-surgical operations, performed by Dr. Kuechenmeister, Huengelmann, Erdmann and others, while being in charge of the battery. (Dr. Kuechenmeister's operations are known as the first ever made, applying the galvanic-current for cautery. The instruments, battery as well as the various shaped cauters were unexplicite. Then, and these operations may be properly termed in our days "Galvano-Butchery"). – I also was admitted to Prof. Heippendorf's extensive Laboratory & physical cabinet,

one of the richest private collections of apparatus I have ever seen. The various apparatus were partially made in our Dresden establishments, others imported from elsewhere, but every one carried out on a large scale. One strong Electro-Magnet I still remember, being made of such extraordinary size, that, if fully charged, would have the influence to magnetize everything made of steel laying around near it in the room. –

After a course of four years practical study went to a preparatory school to give the Dresden Institute of Technology. Two years later went to Freiberg (Saxony) the seat of the only Mining-Academy in Germany, connected with practical study in their extensive silver mines. Here obtained knowledges as to the various surveying & mining instruments & compasses and their practical use. Went through a practical course at Lingke (Bergmechanicus) Mfgr. of Mining & Surveying Instr. in Freiberg. When present in Freiberg not less than 20 American students were undergoing a practical course at the Academy, most of them from California. Later I was seeking employment at some Sewing-Machine factory, also Telegraph instrument Mfg Co. to learn particulars in these branches. – Twenty one years of age left home for Berlin to fill the first engagement of any importance as far as compensation was concerned.

I took charge of the Optical establishment of E. L. Ross, Unter den Linden, Berlin. The proprietor had just deceased. There I improved as to proper handling and operating the most various optical, philosophical, mathematical, medical, telegraphic etc. Instruments & supply. I soon learned the best manufactures made in Europe, their value and various other particulars. I had finally complete management of this establishment and succeeded to treat customers sent by Prof. Dr. Graefe and Schweigaath Dr. Bochum to their greatest satisfaction, securing, by so doing their extensive trade exclusively. The above mentioned Physicians are known as experts and are our most recommended occulists in Germany. - Another of our specialties was the manufacture of continuous current batteries after Prof. Remack, Berlin; also Induction apparatus after Prof. Dubois Reymond (with and without Prof. Moritz Mayer's modification.), Dr.s Beyerlacher & Gaiffe, Paris. - Various other manufactures were made, such as: Ophthalmoscopes after Erdreich, Microscopes and all kinds of philosoph. & mathematical Instruments. - Having been made the offer to take half interest in the business and take complete charge of it, I declined for want to secure additional knowledges elsewhere and a desire to learn the originalities of this side of the globe. In 1866 started for New York.

In New York took the first chance to obtain a situation at Benj: Pike's Son establishment and worked there exclusively on air-pumps. After this an offer was made to fill a place at Messrs. Satcliff & Winkler in William St. to work on various tools such as cutters and discs, and numbering machines, the latter a new patented machine which was manufactured by the above firm. - Here, work for some time was discontinued, within which time I filled a place at Holdsh's machine & model shop in Water St., being engaged on Models for the Patent Office. Later returned to the former place. After work again had to be suspended obtained a situation at Mr. Roach, Fulton St. to carry out a new idea, an improvement on sewing machines, which I successfully developed to the greatest satisfaction of employer & patentee as well as myself. Various other models had to be worked out, or improved and machines of various design manufactured. I finally succeeded in obtaining a more permanent situation at Colt's Rifle Factory in Hartford, Conn., being exclusively engaged to construct & manufacture Rifle-Telescopes of a work improved quality. In 1867 established myself in Hartford, but finding this place not suitable, went to New York again where I successfully & by degrees established a trade, specially in working out models for the patent office, at 36

Nassau St. N. Y. city. I soon obtained a larger job, the manufacture of 25 of Durant's "Self adjusting Relays", which I completed. In harmony with various applications made by parties of the medical profession, constructed a portable Electro-magnetic machine, being not larger than an ordinary opera glass and having about that form. I had this apparatus patented in 1867, and it was selling rapidly, being a small portable, yet most powerful instrument. I in short successivus constructed a variety of Induction-apparatus and necessary appliances (Electrodes of various design) as required by the medical profession. Some of the apparatus was intended for hospital use, others for practitioners office use, while a third class, being portable instruments. A new Battery, an improvement on Smee's system was the next which I brought into the market; a similar construction in principle was later advertized by Fromholz in Vienna. This improved Smee I attached to all my Induction apparatus, continuous current Batteries as well as Galvano-caustic Batteries, giving great satisfaction. Later constructed a new design of a Battery, using a combination of the three best invented Bunsen cells. The highest premium was awarded to my instruments and batteries at the American Institute in 1870. After the first Galvano-caustic battery was brought into the market by myself, I soon found competition and such stadily increasing. Working out the most various ideas of inventors, such as: Velocipedes, Electro Motors, Telegraph

apparatus, Batteries, Steam engines etc. etc. established a Retail store at No. 9 Cooper Union, connected by wire with the shop. Here obtained an extensive trade in the Optical Branch, especially in treating the defected Eye sight, thus, being one of my specialties secured within a comparatively short time a well paying trade. I also constructed here a new portable continuous current Battery (a modification on the Leclanché cell after Baty). This battery proved to be a great success, its workmanship being unsurpassed. – Finding too much competition in the line of Electro-medical apparatus & appliances, and yet adhering to old principals in carrying out a solid and always perfect workmanship on all apparatus of my own manufacture, I had hard labor to defy & resist competition as to prices. Finding that apparatus were also in less demand than previous, started the manufacture of philosophical apparatus for school use. In 1875 went to Europe, succeeded in securing the agencies of Dr. Emil Ackerer, Dresden, and two other Berlin firms manufactures. Had it not been for the enormous sinking of value and reduction on prices, their goods would be in the market to day on this side as well as in Europe. These agencies proved to be no longer of any avail. – With the publication of Prof. Tyndall's "Lessons in Electricity" by D. Appleton & Co. started the manufacture of the complete collection of instruments, designed to

accompany his lessons. The apparatus (58 in number) being intended for our common schools and private students, are furnished enterprisingly cheap; yet the last step seemed to be the worst I could have taken, finding but little or no support, even, after our press has most willingly given the matter a liberal support.

Respectfully

Curtis Meyer

See enclosed pamphlet
Opinions of the Press.

[ENCLOSURE]

Valuable Opinions of the Press.

Extracts from some of our leading Papers.

From the "NEW YORK TIMES," April 5th, 1877.

LESSONS IN ELECTRICITY AT THE ROYAL INSTITUTION. 1875-76. By JOHN TYNDALL, D. C. L., LL.D., F.R.S., &c. New York: D. APPLETON & Co., 1877.

"Prof. Tyndall may be said to fill, and to fill worthily, the shoes of Faraday. "The present work is intended as an elementary guide-book of actual experiment on the part of boys and girls. It is a kind of spur to what may be termed objective self-teaching. His dedication is to five boys—Hugh Spottiswood, Henry Huxley, Rolfe Lubbock, John Chanslin, and Reginald Hooker—boys who, to judge from names, might have inherited a disposition to investigate natural phenomena from the example of their respective parents. Mr. Tyndall has always been noted for making science clear to non-scientific minds, but in this book his effort is to be even clearer than before, in order to make it suitable to the comprehension of children. To attain that object the better, and to make sure that no one shall there make the experiments for want of proper instruments, Tyndall has selected the cheapest and commonest articles to use in the investigations proposed." A price-list of apparatus is given in the appendix, with amounts given in American currency. The shop offering them at the stated rates is No. 182 and 184 Broadway, N. Y., Carr & Meyrs.

The volume is the result of a movement in the Board of Managers of the Royal Institution more than 50 years ago. Faraday was then living, and he it was who first gave, during the Christmas and Easter holidays, a course of six elementary lectures on chemistry, adapted to a juvenile auditory. Last Christmas it fell to Mr. Tyndall to deliver that portion of the lectures which have been retained since the time of Faraday, and we have before us the substance of those Christmas lessons.

Their scope is not entirely that of investigations; historical allusions and explanations are included with that easy vein of writing to which we are accustomed in Mr. Tyndall's books. After a short introduction and some brief historical notes, the lecturer reverts to the loss the world has suffered from a neglect of the art of experiment, describes the materials necessary or fittest for making experiments, and enters upon the subject of electric attractions. The text for 113 pages is further explained by woodcuts. "It is a book well worth the attention of the large number of persons in this country interested in electricity or about to make it to some one form or other their means of livelihood. Telegraph employees must constitute a class of no small dimensions in the United States. It is a class, moreover, which is sure to grow every year into larger proportions."

From the "NEW YORK TRIBUNE," Dec. 15th, 1877.

"CHEAP ELECTRICAL APPARATUS. The youth who study science now, have great advantages over their fathers. Books on scientific subjects are written more simply, and the experiments suggested are less costly than the older ones. A further improvement has been devised by preparing cheap sets of apparatus for the illustration of an entire branch of science. In carrying out this plan with respect to electrical science, the well-known work of Professor Tyndall has been followed and apparatus is provided to execute most of the experiments he describes. Any of the pieces of apparatus can be bought separately at an average of about a dollar apiece; the whole set for that science costing $35. With such apparatus in the hands of a student (eager to think and spend for himself, far more effectively, than with costly machines which he is rarely permitted to use). The system has been developed in this city, and already has been found of good service in the furtherance of intelligent educational work; the apparatus being neatly made, presents an attractive appearance, and helps to interest the scholar in the care and management of the tools of science."

From the "NEW-YORKER STAATSZEITUNG," Dec. 15th, 1877.

"Unsere Autorität in der Wissenschaft, welche eben jetzt das Studium der Naturwissenschaften mehr und mehr in den Vordergrund zu stellen, das Experimentiren in dieser Richtung bei aber der „wissenschaftlich populäre" Mann der Neuzeit, Professor John Tyndall, gethan. Vor wenigen Jahren hielt er eine einzige seiner interessanten Vorträge über Licht und Wärme, Electricität und andere Zweige der Physik. Jetzt kommt er mit einer neuen Gabe „Lessons in Electricity" herausgegeben von D. Appleton & Co. in New-York. Dieselbe weist die Leitfaden in der Electricität, Kinder zu praktischen Experimenten, u. Dieses lehrreiche Werk wird sich sehr bald Jedem, der Interesse an diesem Zweige der Physik nimmt, als werthvoller Wegweiser zum Selbstunterricht empfehlen. In dieser Beziehung spricht Tyndall seinen Wunsch aus, dass der Schüler die Experimente nie unterlasse; die Natur verlange nur gefragt zu werden, und sie antwortet dann. Der Vorleser führt eine Anzahl billige Materialien auf, um die Knaben im Herstellen ihrer eigenen Instrumente zu unterrichten. Ausserdem enthält die Anlage ein Verzeichniss von 58 Instrumenten und Materialien, mit welchen sich alle in dem Büchlein angeführten Experimente machen lassen. (Diese Sammlung von Instrumenten wird hier von der Firma Carr, W. Meyrs, 182 und 184, Broadway, N. Y., fabricirt)."

From the "NEW YORK EVENING POST," Dec. 18th, 1877.

"In his little volume "Lessons in Electricity," Professor Tyndall formerly urged the making of cheap, elementary apparatus for the use of students, because without practical experimenting it is difficult to pursue the study of electrical phenomena profitably, while the ordinary apparatus of the lecture room is so costly that only large institutions can afford to purchase it. In accordance with this suggestion, Carr W. Meyrs, of No. 182 and 184 Broadway, New York, has developed a set of apparatus, including everything needed for the making of all the experiments described in Professor Tyndall's work, which he offers to students and schools, singly or in a complete set, at an extremely low price. The complete set, with all the materials needed for experiments, is sold for fifty-five dollars, while those instruments which are needed for the principal experiments may be bought separately for much less. At the prices fixed, there is no profit, or almost none, to the manufacturer; but, as schools and private classes which need the apparatus will get the benefit of the enterprise. We commend the matter to the attention of teachers and students in the belief that Mr. Meyrs's undertaking will forward the cause of elementary scientific study."

[ENCLOSURE]

From the "MILWAUKEE SEEBOTE," Dec., 24th, 1877.

ELECTRICITÄT—WICHTIG FÜR SCHULEN

Die „New Yorker Staatszeitung" schreibt:

(obiger Artikel.)

fügt hinzu:

"Wie uns mitgetheilt, wird die Sammlung von 58 Instrumenten für den niedrigen Preis von $85.00 angefertigt und verkauft. Für die Solidität des Unternehmens bürgt nun der vorzügliche Ruf, welches sich als Fabrikant physikalischer Instrumente Herr Conr W. Mayer erfreut und knüpfen wir gern die Aufmerksamkeit der Schulvorsteher und Schulräte auf dieses wichtige und liberale Unternehmen."

From the "NEW ENGLAND JOURNAL OF EDUCATION," Boston, November 22d, 1877.

"Conr W. Mayer, 182 and 184 Broadway, New York, is prepared to furnish the teachers of America with Prof. Tyndall's cheap collection of Electric Instruments. We have carefully examined this collection, and have never seen anything to compare with the fifty-eight articles of apparatus and materials for the low price of $85.00. For ordinary schools, these articles include all that is necessary for a complete illustration of this department of natural philosophy."

From the "NATIONAL JOURNAL OF EDUCATION," Dec. 20th, 1877.

"No more suitable holiday present can be made by pupils to their school than a set of Prof. Tyndall's collection of Electric Instruments. 58 various pieces for $85.00. Apply to Conr W. Mayer, 182 and 184 Broadway, New York."

From the "NEW ENGLAND JOURNAL OF EDUCATION," Boston, Dec. 6th, 1877, page 257.

"IMPORTANCE OF A THOROUGH STUDY OF NATURAL PHILOSOPHY."

Extract from the above article:

"Natural philosophy is taught in our common schools, but it should also be provided for the necessary apparatus to illustrate this subject properly. Why not adopt at first a collection of cheap instruments, such as offered now in Prof. Tyndall's "Lessons in Electricity." This excellent work would serve as a perfect guide to the teacher to illustrate his lectures in one of the most important branches of natural philosophy, "Electricity." Our children should be made acquainted with the powers of nature, such as indispensable now in our daily practical life. Natural philosophy should no longer be classified among advanced or high studies, as done heretofore, and be taught to those only fortunate enough to continue their study, while most others have to leave the school to devote their time to business. If our public schools should be compelled to reduce even amounts to be expended, let them do so, but let us provide a chance to those, willing to pay for additional advanced and useful studies. We should provide at least for a general advanced education. Thousands will be ready to pay extra tuition if the chance be given to them to pass through such useful lectures as natural philosophy will offer to-day.—The above opinions are highly endorsed by all our prominent scientists and citizens of culture. There is actually a remarkable neglect in the United States of the study of Natural Science.—Young American as a general rule, we may say, are smart and sharp as to their thoughts, therefore no doubt they will make rapid progress if such a study were properly introduced. Don't let us continue to have their smartness cover a superficial knowledge of entire ignorance as to science. We shall not lag behind other nations! Is it possible that any of our citizens could content themselves to see their children make familiar with elementary studies only? Should not our schools, public or private, provide for advancement? We are certainly not ahead of other nations in a system leading to a thorough education. Let us take a step forward!

Offers are made now to schools and students, exceedingly enterprising, small amounts will purchase apparatus sufficient suitable for illustration. It may be called a gift to the world to have our students enabled to make their own experiments. Prof. Tyndall also reverts in his lectures to the loss the world has suffered from a neglect of the art of experiment. In accordance with the above desire a New York Firm: Conr W. Mayer is manufacturing cheap apparatus now. All our institutions not provided as yet should at once attend to give support to such a highly laudable enterprise. A present support of this enterprise would encourage the manufacture of similar cheap collections to illustrate various other branches of physics, resulting in a remarkable interest taken within time by our whole population in the study of Natural Philosophy, beneficially to science and those dependent thereon."

From the "NEW YORK SCHOOL JOURNAL," Dec. 8th, 1877, page 4.

"VALUE OF NATURAL PHILOSOPHY AS A SCHOOL STUDY."

Extract: In the above article schools in general are urged to introduce more thoroughly natural philosophy in our present days, being such an important study and of such a practical character. Twenty years ago already natural philosophy should have been more generally introduced into our schools, a study which is even more important than the study of foreign languages. It is further said: If natural philosophy were introduced in some of our schools, that it should be more properly introduced, so the aid for a practical illustration of phenomena is found completely neglected. What would it be, if geography would be taught without the aid of maps and globes? It then literally continues: "Probably no one doubts its great importance and practical value, but a proper study of physics requires a little more than other studies, and there we touch the reason why this study has heretofore been more or less neglected... Physics cannot be taught without the aid of apparatus. We need to see, to use our eyes in the discovery of properties and relations, thus permanent impressions are made upon our mind; if these are only said to the ear, they make but little impression. The real way to study physics is by means of experiment; this method is of inestimable value, improving the mind and cultivating the judgment. We simply mention this to give a hint as to what would have been proper. It is no longer necessary to make the expensiveness of the apparatus the reason why this study should be any longer neglected.—It is no longer the expensive apparatus which need to prevent practical experiments. Let our schools provide for one part; department of science another, and by so doing they will at least obtain complete sets at a small expense. One of our most popular scientists would not have been caused to remark, "how much the world has suffered from a neglect of the art of experiment," if he not actually had found the darkness in which it is still laboring. Let the pupils be brought from darkness to light!"

A new era seems to have been opened to give a chance to all. Conr W. Mayer has commenced the manufacture of a cheap collection of instruments at 182 and 184 Broadway, New York. He has begun with Tyndall's Guide, Lessons in Electricity, and has designed a large number of pieces suitable to illustrate his lectures. The whole apparatus is offered now for sale at $56.00, and furnishes a complete outfit for our common schools, and is in the reach of students. We have carefully examined his new collection and have found them of beautiful design and excellent workmanship, and have never before seen anything more complete. There are 58 various instruments and materials which form this collection. We hope that this laudable enterprise will soon find deserved appreciation and support."

From the "EDUCATIONAL WEEKLY," Chicago, January 26, 1878, page 15.

"A THOROUGH STUDY OF NATURAL PHILOSOPHY."

"Scientific authorities have always been much in favor of a more general introduction of the study of natural philosophy into our schools. Prof. Tyndall's efforts in this direction are taking the first rank. His popular lectures and his various scientific manuals have added much to the general culture of our younger students. Prof. Tyndall, the worthy successor to Faraday, delivered about four years ago in New York some most interesting lectures on Light, Heat, Sound, Electricity, etc., which attracted the attention of the more refined and cultivated citizens. His easy vein of writing, as well as his clear demonstrations, comprehensible even to unscientific minds, we are familiar with, but in his late guide-book, "Lessons in Electricity," his effort is to be even clearer than before, in order to make natural science suitable to the comprehension of children.

There can be no doubt that Prof. Tyndall has noticed a great lack of a thorough study of natural sciences in our country. Our schools indeed have not provided as yet for the proper method of introducing the almost indispensable study of natural philosophy. Prof. Tyndall points to the loss the world has suffered from a neglect of the art of experiment. It is desirable that our schools should adopt a course of studies, properly taught, such as are of unquestionable importance in practical life in our advanced days. The study of natural philosophy (physics) or the science of motives and powers which cause the various phenomena continually occurring in inorganic nature, will serve to lead to common sense. Old and young in general seem to take a remarkable interest almost instinctively, and ask for causes of these natural phenomena. Why not encourage such a desire of knowledge? A child naturally asks for the reason of thunder and lightning or other phenomena which happen to present themselves; are they always properly explained to the child?

As important and necessary as the study of physics is, this study has been much neglected. Experimental study is the only real study of this branch of science. The purchase of the costly apparatus necessary for illustrating various natural phenomena is no doubt a cause of the neglect to introduce more thoroughly this important study in the schools. Many of our higher schools teach natural philosophy in the higher classes, but are unable to illustrate matters properly from lack of necessary apparatus, and much valuable time is consequently lost. Many matters may be easily explained without the aid of costly apparatus, but a thorough study is almost impossible. In his little volume, "Lessons in Electricity," Professor Tyndall earnestly urged the making of cheap electrical apparatus for the use of students, because without practical experimenting it is difficult to pursue the study of electrical phenomena profitably, while the ordinary apparatus of the lecture room is so costly that only large institutions can afford to purchase it. The above work will serve as an elementary guide-book for teacher and student, leading them to make their own instruments. As a valuable aid for self-study, Tyndall's Lessons in Electricity must soon recommend themselves to all who are interested in this branch of natural science, and to all schools not prepared, as yet, for this important study. To attain that object the better, and to make sure that no one shall throw aside the experiments for want of proper instruments, Tyndall has selected the cheapest articles to use in the investigations proposed. A price-list containing 58 various instruments and materials to accompany his Lessons will be found in the appendix of his volume, and the whole collection of instruments for the complete illustration of every experiment described therein is sold for $55.00. In accordance with this suggestion, Conr W. Mayer, No. 182 & 184 Broadway, New York, mentioned in Tyndall's price-list as the manufacturer, has devised a set of apparatus, including everything needed for the making of all the experiments described in Prof. Tyndall's work. Conr W. Mayer offers these cheap instruments to students and schools, singly or in complete set, at the above low price, so as to be in reach of almost every one.

It is to be expected that a large interest will be taken by all in favor of advancement of natural sciences, especially by all our institutions not sufficiently provided with instruments. It is further desirable that such a laudable enterprise should soon find its deserved support, as at the prices fixed there can be almost no profit to the manufacturer, but the schools and students which need the apparatus will get the benefit of the enterprise. We ourselves commend the matter to the attention of teachers and students, in the belief that Mr. Mayer's undertaking will forward the cause of elementary scientific study."

From the "POPULAR SCIENCE MONTHLY," February, 1878.

By Prof. E. L. YOUMANS.

MEYER'S ELECTRICAL APPARATUS FOR BEGINNERS.

"We some time ago noticed the admirable little work on electricity by Prof. Tyndall, which grew out of a course of holiday lectures to a juvenile audience at the Royal Institution. This book, "Lessons in Electricity," is designed as a guide for beginners to go through a course of electrical experimenting. The main purpose that he had in view, in preparing this little volume, is thus stated: "I had heard doubts expressed as to the value of science-teaching in schools, and I had heard objections urged on the score of expensiveness of apparatus. Both doubts and objections would, I considered, be most practically met by showing what could be done in the way of discipline and instruction by experimental lessons, involving the use of apparatus so simple and inexpensive as to be within everybody's reach."

Of course there can be no experimenting without the necessary instruments, and, if the work is to be pursued so as to yield its proper benefits, the apparatus must be sufficient to cover a definite field of study. Prof. Tyndall has marked this out in his little volume, and given figures of the various articles that will be required. An ingenious pupil can do something—after a time he can do much—in the way of widening his resources for making experiments, but he will at first require that the tools be ready at hand. A philosophical instrument maker of New York, Mr. Conr W. Mayer, having been applied to for various articles suitable for rudimentary experiments in electricity, conceived the idea of meeting this demand by preparing the complete set of instruments needed for the illustration of Prof. Tyndall's book. These he has manufactured and put up in cases for transportation, so that those who wish to enter upon such a course of experiments will be spared all trouble in selecting or making the instru-

[ENCLOSURE]

monts necessary for the purpose. The price is such that many boys will probably be unable to procure it, but there are not many schools that by a little effort could not get the apparatus for the use of their pupils. Electricity is admirably adapted on many accounts for introducing the young to the scientific study of natural objects and agents, and in furnishing them with the facilities and equipments for the work Mr. Mayer has done them a very useful service.

From the "MERCHANTS JOURNAL," New York, Oct. 6th, 1877.

"PRACTICAL ELECTRICITY."

"The idea acted upon by Mr. Cyrr W. Mayer, No. 182 & 184 Broadway, New York, of placing on exhibition a complete collection "of electric instruments, designed to accompany prof. John Tyndall's "Lessons in Electricity," is an excellent

one, and doubtless induce many students of that science to add to their knowledge by actual experiment. The price at which the apparatus is fixed, does not exceed a dollar a piece, the complete apparatus containing 88 various instruments and materials costs $65.00.

The reputation obtained by Prof. Tyndall of making matters of abstruse science plain, clear and intelligible to the youthful mind, is too well known to require comment; but however clear may be the language employed, the mind can never grasp the subject by mere reading, so thoroughly as when the study is supplemented by actual and enlightened experiment. Mr. Mayer's apparatus affords the required means of combining this. This book is illustrated by numerous woodcuts, and book as well as apparatus are so eminently useful and comparatively inexpensive that they commend themselves to the use of all."

1878. Edison, T.A. - Family (D-78-013)

Correspondence, some by Edison.

See also: "Railroad - Port Huron and Sarnia Railway Companies" (D-78-034).

All selected.

E. R. PARKER

St Louis Jan 5th 1878

Thomas A. Edison Esq
Menlo Park N.J.

Dr Sir

Will you please use your influence with Jay Gould Esq to secure me a position — I have held the following positions in their order

Ill. & St. Jo. R.R.	Supt Clk	1	year
Red Line	Local Supt. Wabash division	2½	"
Empire Transp. Co	Agt. Supt. Buffalo N.Y.	6	"
D & Pitsb. R.R.	Agt. Panol divisn	1	"
Ill. & J.S. R.R.	Ticket Agt at Jacksonville	1	"

and for reference offer all the officers of these lines & roads

I have not had the pleasure of meeting you in person since my visit to your parents at Port Huron with Marian & Miss Alice Pope now Mrs E. R. Parker

This will probably recall to your recollection fully who I am —

Please accept my congratulations for your personal success — your inventions have conferred great benefits upon everyone — I trust to receive an early favorable reply

Yours Truly
E. R. Parker

Address
Norwalk
Huron Co
Ohio

George Bliss

George H. Bliss, Gen'l Man'r

OFFICE OF THE ELECTRIC PEN & DUPLICATING PRESS.

220 to 232 Kinzie St. Chicago FEB. 27TH, 1889

T. A. EDISON ESQ.
MENLO PARK, N.J.

DEAR SIR:

CHARLEY WRITES ME FROM PORT HURON AND OFFERS TO WORK FOR ME AT THE PARIS EXPOSITION PROVIDING I WILL PAY HIS EXPENSES WHILE HE IS AT PARIS.

AS MOST OF THE VISITORS WILL BE FOREIGNERS IT WILL BE NECESSARY TO HAVE SOME ONE WHO CAN SPEAK THEIR LANGUAGES.

IT IS BARELY POSSIBLE IF CHARLEY CAN PUT UP AND EXPLAIN THE QUADRUPLEX AND THE OTHER ARTICLES WHICH YOU WILL EXHIBIT THAT HE CAN BE USED TO ADVANTAGE

PLEASE LET ME KNOW WHAT YOU THINK OF THIS.

CHARLEY SAYS HE IS GOING TO MENLO PARK SOON AND I PRESUME HE WILL TALK TO YOU ABOUT THIS MATTER.

RESPECTFULLY,

Geo. H. Bliss

GEN. MAN.

GHB -
You needn't say it was a cheaper but I do not think Charley would do -
I sent Lambdin & Cole to Chicago with <u>[illegible]</u> [illegible] for Chicago for an agency for you

Honor Taylhon
H Page
Apr 13. 78

Milan Apl 15. 1878

Brother Alve

I want to say just a few words to you about your late discourses. I am impotuned every day, by Gentlemen urging me to write you and use my influence for their interest. wanting in some way to get an interest some way or other, the right to sell or buy territory. now they you have a big thing and look to it. don't let any one get the start of you. you can be worth millions. now I would like to be remembered all that I could do is the State of Ohio

and I will take the chances
of being worth more money
than any man in the state
just bear that in mind
will you. Marion wants
us to come down if it would
be of any use will do so
She has the rhumatism yet
hasent got over the atack of
last winter, will not bother
you more this time. love to
all Yours Homer Page

Please answer very soon

Homer + Marion Edison Page

Miscellaneous

Milan Ap 25th

Dear Abra,

I received yours and was glad to get it. Knowing how you are pressed with business at this time and have no time to spend on green horns, but just once more how would it do for a good live man to take the Phonograph and exibit it through the Country People are Crazy to see one. I was asked in town to write you asking you to come out to Milan they thought as you were born here that you would like to give them an exibition I told them that you had no time. Hamilton Williams will write you anything that you do with him will be all right he is business every time he wants a Phonograph either buy or take on shares. please write me if you can get time. Yours Truly Homer

Dear Brother

Homer said I might write a little in his letter – Mr Williams came this morning wanted me to write him a recommend to you in his favor – he wants to buy one of your Phonograph and if you have no right to sell him one cant you give me one – and have it exhibited in Milan you ought to have one in your native place – I have written 3 letters to Mary and she has never answered either one of them – I shall never write her another I made an apology for not going to see her and if she felt as sick and bad as I did she would not went any where either if I live I shall go to Mem – to Park this fall to see you and the children I want you to come here this summer sure I dont suppose Mary would come if I would ask her now Mr Mikey I want you to answer this letter if you are not mad at me too – Love to my friends

Ever your loveing sister
Marion

Marion (Buckhout) Page

Rose Hall April 25

Dear Brother

Mr Williams wants one of your Phonographs as he is an old citizen of Milan and a gentleman Homer and I think a good deal of I want you to let him have one on as reasonable terms as you can and whatever he tells you he will do you can depend on his word

your sister
Marion

George M. Edison

OFFICERS:
SAMUEL LANSDON, President.
J. H. WITBEY, Secretary.
J. L. ALDER, Treasurer.

OFFICE OF

GRAND RIVER CO-OPERATIVE P. OF H.

DEALERS IN

GROCERIES, BOOTS, SHOES, CROCKERY

AGRICULTURAL IMPLEMENTS, &c.,

34 and 36 Ionia Street,

DIRECTORS:
SAMUEL LANSDON, GEO. M. EDSON,
J. H. WITBEY, THOMAS WILIA,
EDWARD HAYWARD, J. W. WALKER,
JOHN FORTER.

Grand Rapids, Mich., May 6 1878

Thomas A Edison
Menlow Park N J

Dear Sir

Being there
the papers that you are one of the first
men of our Nation as an inventor and
hope you may continue to stand in the
first ranks in the futuree. Sorry I
did not call and see you when in
New yorke I am thinking of taken
a trip in some of the following stets
to spend a few weeks and thought I would
like to introduce some of your Patents
if you have not got some one to do so
I shall go to Kansis Colorado or California
with patentes & thes one of the above place
or all of them. Would be glad to hear from
you soon as convenient and if not
be to be perfect I will come and see
you

Yr M Edison

Box 556

Marion Page
May 23

(1879) May 23
Mrs. Marion Edison Page

Milan May 23

Dear Brother

I received your "Photo" all right and for which I sent you many thanks - I think it very good of you indeed

Every one is very anxious to have you come to Milan they will give you a grand reception

Hundreds have already been to see the old house where you was born

Homer is getting

so her can walk around
he come very near being
killed - I wrote Mary
about it

I tell you Rinky
you ought to come to
Milan and bring a
Phonograph write to me
again where is father
what has Pill gone to
the Hot Springs for

Love to all

Ever your loving
Sister
Marion

write again wont you?

Office of

F. W. EDISON,

—DEALER IN—

Stoves, Tin, Copper & Sheet-iron Ware,

245 BROAD STREET.

F W Edison

May 24

Lima, O. May 24th 1878

Dear Alec

My Wife and I have just got home from Cleveland. Sim had returned from your place 21st and of course was full of the great Phonograph.

We are all proud of your success and anxious to congratulate you personally. I think I am as happy over your inventions as if they were my own, and I rather suspect we are all inclined to sun ourselves in your reflected light.

But we object, as a family to being totally ignored when your folks pass this way. Here we live in a pleasant place between Cleveland and Marion and

would have been glad to had
you all visited us last fall and
would have done our best to
make it pleasant as our advantages
admit of.

Sim says your family may go to
Lake Superior this Summer if you
do visit us first and then take
a Boat from here and of agreeable
some of us may go with you.

Please send us your Photo like
the one you gave Sim with your
autograph on it with the new
writing fluid which my wife is
inclined to think will bring more true
happiness to the afflicted than any
thing yet invented

Regards to all
yours affect
Th Edison

A. H. Church

Grand Rapids Mich
June 17. 1878

Mr. T. A. Edison
Menlo Park N.J.

Dear Sir,
You will doubtless remember my calling upon you last summer representing myself as a relative of mr. [illegible] and [illegible] with Mr. Jude. The results of your grand achievements and can only say that a grateful country will reward you for the onward step taken which shows plainly to the world that the blood of the Edison family is not dormant. Now to business. I am aware of the fact that there is money to be made in this and other states by showing your Phonograph and selling of its Inventor. I would gladly risk the money to carry such and undertaking into execution. Will you be kind enough to inform me how I may come

into possession of one of your Phonographs, I will remit the amount necessary to pay for the same if they are on the market. By answering this epistolary effusion you will confer a favor on the Edison family of the west that they will gladly reciprocate.

All relatives in this part of Michigan well.

Yours Truly
A. Edison

Box Office Box 89
Grand Rapids
Mich

Edison Papers
Rutgers-Piscataway
Guest-Journal 78

Ans 9 July 8. 78

Cleveland July 3. 1878

Dear Al.

Recd. your letter this
day in reference to the matters spoken
to me in reference to Lighting by
the Electricity - and I will be in Washington
soon after this letter reaches you
a few days. Nothing alone when
I can expect to take your trip up
the Lakes I need for you to be sure and
stay and see me if you can spare
time to visit your friends
along with the rest connected in
Connection with the Pennsylvania
that we talked of when I was there
I want to show you some property
when you come out and try and
get you interested in it. That is if
it looks as well to you. I wrote Gen
Porter a few days since at Pat

Never mind how we heard from
Lincoln & Stanton & Seward
& Chase & all the prominent
men in the country & how they
behave — Have you read Trent
yet? The lighting gas by electricity
is an attention if not go & see you
soon the practical one & little surgeon
for your sake get some order very
to lighting lights before the time get
their places perfected — Pam Nicholas
& the Hale Gloucesters are out of town
Now I have a leaf time to go to the
Mercantile Mutual & find some
fun talk & will they make arrangements
to pay bills & much money? is
gone to the ice this cold year —
Do write me news from you in return
of this — Remember me to all the
folks & bring you as an old card
that may be you will see them soon
Truly Yr Loving [illegible]

Oakland July 4 1876

Dear Al.

I can not write letters in my [illegible] position [illegible] [illegible] but you are very [illegible] long long gone [illegible] up the Lake [illegible] [illegible] [illegible] [illegible] [illegible] paid it [illegible] the Clerk [illegible] [illegible] [illegible] [illegible]

I hope you will stay with him a day or two in spite of the [illegible] [illegible] [illegible] [illegible]

Can you [illegible] me [illegible]

Nothing else. Our [illegible] [illegible]

Your [illegible]

B C [illegible]

T. A. EDISON,

Menlo Park, N. J. July 15 1878

Dr Daily
Rahway N.J.

My boy very sick
Chronic complaint
Please come quick
Bring medicine
Thos A Edison

1258

Rahway N.J. 14 78
T. A. Edison
-Will be there directly
J.J. Daly

(1878-[illegible])

Copy

Mary Ann "Annie" Edison

Dear Cousin I scarcely know how to begin to write to you for I know you will think it so strange I come by do it & state as I hold. I would not think of doing such a thing if I had health & strength. I suppose you are wondering all this time who I am so now I will tell you. I am your Uncle Thomas eldest surviving daughter my name is Mary Ann I am named for Aunt Mary Ann, Uncle Thomas Edison's wife. I never

remember of seeing you
but once & that was at Uncle's
you & your brother were there.
Aunt Nancy gave me on
that occasion the first silver
three cent piece I ever
saw & you gave me a little
red covered book, little.
did I think then that
I would ever be writing
to you for help. it goes
against me now but
leaving an account of your
enormous income though
you could never owing what
would make myself & Ted quite
comfortable, that is with what
little I could earn myself.
I suppose you think this
is green talk, I would have
written to my own brother
Mike for assistance but
he is unable to give it
by all accounts I learn.
As you value & wish your
own peace kept future
from scorn & burn this
letter as soon as you read
it, for I would not
have Uncle Sam or any of
the Edison family know
this for a great deal for
it is very humiliating for
me to write on this way,
my own husband does not
know it if you see fit
to reply to this, please
address, Jessie Edison
Dundas P O
Ontario

My reason for doing this is that at our own post office my hiding name would be known & at Dundee it would not, but my husband would & it would be forwarded to him, which I do not want. Please respect my secret. Trusting that you believe me and Remain yours sincerely

Annie

P.S. if you answer this please do not put it off longer than the letter post of week, such I think in you to keep my secrets even if you do not suppose to answer really

Annie

T. A. EDISON. No 1

Menlo Park, N. J., Aug 25 1878

Dr Leslie D Ward
Walnut St Near Broad
Newark NJ

If convenient come down on Early
Train tomorrow to see Mr Edison
T. A. Edison
per G

12th

Cleveland O Sept 22 78

S O Edison

Cleveland Sept 22. 1878

Dear Al

I see by the newspapers that you have returned from your trip west without stopping or coming this way. I am sorry would like to have seen you. How are you getting along with the Phonograph matters that we talked about when I was at your place. You thought you would have it ready in about two months to print Books & music &c. I see by the papers that you are getting up something new all the time. I wish you would strike something that you could give me a chance. So that could make a good thing. Office manufacturing for you & myself something we could have the exclusive right

I have not yet finished that Gold Fever yet but will in a few days. Yours &c

to make and still as that is about the only thing now days there is any money in - All the things I have been engaged in such as Iron Lumber &c. is played out as far as making money -

I wish you could make a flying visit out here. I would like to have you see that land at Black River that I talked with you about when at your place. I think there is a fortune in it. If can hold on to it a while longer. It is situated where it must become valuable as soon as business starts up in Iron Coal &c. There was about 40 acres sold a short time ago adjoining mine for 1000$ pr acre and I sold a small piece a few days since at the rate of 3000$ pr acre. now if you have any surplus money would like to have you take an interest with me - it would be a safe investment. And in time would make us both Rich. Try and come out would like to see you and Mannion would like to see you also. She was here last week. also Bell Retine & Children on her way home to Mich.

Hope your Father gets to Europe & waste time and money not hearing any thing from him. would like to hear of he is away. Send the newspapers that you propose to light N.Y. by Electricity. what are you not going to do. Come out if you can possibly. this fall. Please let me hear from me if you can or come soon.

Remember me to all -

Yours Truly T. A. Edison

T. A. EDISON. 81 Washington 2 Red 24 P.m.

Menlo Park, N. J., Oct 23d 1878

Toledo O 22d
Thomas A Edison Menlo Park
Can I have Ohio or any territory
on Electric light? If so will
come and make arrangements
Thos A Page

17 paid
for rate
AG

T. A. EDISON. X Red

Menlo Park, N. J., Oct 23d 1878

Rec 23d
Thos A Page Toledo O

I have disposed of my entire interest
in the Electric light Cant negotiate

T. A. Edison

14 Collect half rate

T. A. EDISON. 2 10 5 am

Menlo Park, N. J., Oct 24 1878

Toledo O 24 Thos A Edison
Mx

Can I negotiate with parties you told to for Ohio

T. D. Page

10 paid 4 G

T. A. EDISON. 2

Menlo Park, N. J., Oct 24 1878

T. D. Page Toledo O

Cant say Communicate with G P Lowrey Three Broad Street NY T. A. Edison

12 Collect

12 02 pm
9/10

T. A. EDISON.

3 T. A. Edison

Menlo Park, N. J., Oct 25 1878

Miss Alice Stillwell
120 Duffield St Brooklyn
NY

Please come to Menlo Park Mrs Edison
wants you

Edison

8 DH

5.25 pm
G Ing

T. A. EDISON.

8

Menlo Park, N. J., Oct 26 1878

Menlo Park Oct 26
Charles Stillwell 120 Duffield St
Brooklyn NY

All right I will
be home monday get Aunt
Louisa

Mother

Wpaid 35¢
5.10 pm
G ma

T. A. EDISON. 4 Charles 60 pm

Menlo Park, N. J., Oct 28 1878

Postage 7428.

Mrs M Stilwell
Care T A Edison Esq

Come home as soon as possible Father is very sick

Charley

11 Collect 27¢
5 y 9

Louis V. Leady

HURON HOUSE.

Huron Avenue — Amos James, Proprietor.

Telegraph and Ticket Office in Connection with the House.

Port Huron, Mich. Oct 14th 1878

Mr T. A. Edison

Dear Sir

You brother here informs me that you are going to send Charley abroad to represent the Telephone for you. by his request I write you. if you think I could be of any benefit or a profit to your interest I would like to go with him we are so well acquainted I think that it would be pleasant and could make it profitable to all. hoping you will at least answer this I am

Yours Respect
Louis V Leady

Rec'd Message Nov 21.78

Port Huron Mich 20 78

T A Edison 7ms

Has Charlie gone
to Europe Answer
W P Edison

7 Collect Halfrate

Ma G

S. O. Edison

Cleveland Dec 29. 1878

Dear Al.

This will introduce you to Mr O'Keefe who wishes to make some enquiries about that matter that I talked to you about when at your place, and he wishes you about after my return home. Lighting Gas by Electricity &c.

Any favors you may show him will be appreciated — By your Truly

Regards to folks —

S O Edison

P.S. Would like to hear from you about Phonograph &c. And Electric Light would like the right for Ohio How much do you ask for it — Please Remember me — When you get ready to talk tonight

S. O. E

T. A. Edison

3 Dec 31, 78

Dr Leslie Ward
Walnut St
Newark
N.J.

Please Come down on next train
Wife sick

T A Edison

8/Dt
9 Ma 1.45 P.M.

1878. Edison, T.A. - Honors and Awards (D-78-014)

Correspondence.

Not selected: advertising circular.

Alfred B. Westrop

Mexico July 27/78

Thos. A. Edison Esq
care Chas. A. Cheever Esq
Pres. The Telephone Co of N.Y.

Dear Sir I enclose please find diploma awarded you by the Gran Circulo de Obreros, of the Republic of Mexico, for the Invention of the Phonograph. Said diploma, which makes you an honorary member of that organization was handed to me by its Secretary Mr. Miguel Sanchez de Tagle. I am sorry that I cannot have the honor of hand=

A.L. Lebry
(Cons)

ing if it is you in per-
son. As I have not the
pleasure of knowing
your address, I take
the liberty of inclosing
it to Mr. Cheever of
the Telephone Co of New
York to be forwarded
to you. It is with pleas-
ure that I avail myself
of this opportunity of
congratulating you for
having conferred so great
a boon upon mankind.
It would give me great
satisfaction if I could
become your agent in
this country for pro-
curing ~~a~~ patents as well
as for the sale of your
inventions, I should then
have the honor of having
introduced into this coun-
try the two great inven-
tions of this age, the Tele-
phone and the Phonograph.

Wishing you an abundant
success, I remain Yours
Very Truly

Alfred B. Westrup
Mexico
Mexico

Via Veracruz

George L. Beetle

Paris Aug 6th 1878. AM

Thos. A. Edison Esq

My Dear Sir

A French gent direct from the Official headquarters of the Exposition just gave me a call a few days. "Mr Edison carries of the Grand Prize of the Paris Exposition of 1878." This is the only big prize. Art, Industry, Mechanics & Science have each a grand prize but this is the Rambling Grand Prize & this you get. I hope to confirm this news within a day or two & to offer my sincere congratulations

Yours in haste

George L. Beetle

Dr Hertz has secured the Jablochoff Candle for America. Contract signed to day.

Beetle

George L. Beetle

Paris Sept. 6th 1878

Thos. A. Edison Esq.

Dear Sir

I learn from the headquarters of the American Commission that they have official notice of the fact that you are awarded the "Grand Prize" of the Paris Universal Exposition of 1878, not on any particular invention but as the Inventor of the age in which we live.

My informant is Mr. Arthur Smith Supt. of the American Dept. but the announcement will not be made public until Oct 11th.

I extend my hearty congratulations

Very Truly

Geo L. Beetle

S.O.B.

E. Prouvé - Honor. 1878

R.C. McCormick

EXPOSITION UNIVERSELLE DE 1878
PARIS
ÉTATS UNIS D'AMÉRIQUE
COMMISSARIAT GÉNÉRAL

Paris, 6th November 5. 1878.

Thomas A. Edison Esq.,
Menlo Park, N. J.

Dear Sir:

I have your decoration as chevalier of the Legion of Honor, and will bring it to you upon my return to the United States, about the close of the year, unless a favorable opportunity offers to forward it at an earlier day.

Very respectfully,
R. C. McCormick
Commissioner General.

EDISON'S ELECTRIC PEN & PRESS.

T. CLELAND, Gen'l. Eastern Agent.

267 BROADWAY,

New York, Dec. 9th 1878.

Geo. H. Rhoa,
General Manager,
Chicago.

Dear Sir:

In response to your favor of the 29th I called on the Secretary of the American Institute and learned that the Judges had not reported "Class VI" yet. The E. Pen is in that Class and neither with the Lights, etc, and the Judges are holding off.

In Boston the Pen was awarded the 1st prize - A Gold Medal.

Yours Truly,
T. Cleland

Prof. T. Edison,
Menlo Park.

Yes, sorry I was not in this afternoon when you sent over after the Big new Carting. Can have it any time now whether I am in or not.

1878. Edison, T.A. - Insurance (D-78-015)

Correspondence.

Not selected: bills and receipts.

PROVIDENT SAVINGS LIFE ASSURANCE SOCIETY OF NEW YORK.

SHEPPARD HOMANS, President and Actuary.

C. LEYENBERGER,

MANAGER FOR NEW JERSEY,

OFFICE: NO. 770 BROAD STREET,

Newark, April 6th 1878

Thomas A. Edison Esq.,
Menlo Park, N.J.

Dear Sir:

The fire insurance policies on your laboratory expire this month. Some of the companies that are on the risk decline to carry another year.

Will you please inform me how much insurance you desire and I will see that your risks is carried by 1st class companies.

Yours Very Truly,
C. Leyenberger,
per J.M.C.

PROVIDENT SAVINGS LIFE ASSURANCE SOCIETY OF NEW YORK.

SHEPPARD HOMANS, President and Actuary.

C. LEYENBERGER,

MANAGER FOR NEW JERSEY,

OFFICE: NO. 770 BROAD STREET,

Newark, Apl 15th 1878

Thos. A. Edison Esq
Menlo Park N.J.

Dear Sir:

I wrote you some time since relative to your fire insurance, not having received a reply I am at a loss to know how to proceed. Some Companies will not carry the laboratory risk another year. Will you please let me know how much I shall place?

Yours truly
C. Leyenberger

PROVIDENT SAVINGS LIFE ASSURANCE SOCIETY OF NEW YORK.

SHEPPARD HOMANS, President and Actuary.

C. LEYENBERGER,

MANAGER FOR NEW JERSEY,

OFFICE: NO. 770 BROAD STREET,

Newark, May 10 1878

Friend Edison:

It is generally known that your deceased friend Mr. Orton left his family little else than the $10,000 life insurance which will be paid in cash immediately.

Now should you be taken suddenly off. such an amount would be of great benefit to your family. And you can create the fund immediately by paying as premium only about two (2) per cent on the gross amount. I wish you would give this matter your attention and grant me the opportunity of making contracts with the several Life Co's. I will complete them without taking much of your time and without putting you to any trouble.

Very truly Yours

Charles Leyenberger

1878. Edison, T.A. - Notes, Financial (D-78-016)

Correspondence, some by Edison; promissory notes, protests, and receipts.

Not selected: duplicate copies of correspondence.

ESTABLISHED 1858.

AMMUNITION

BERRY BROTHERS

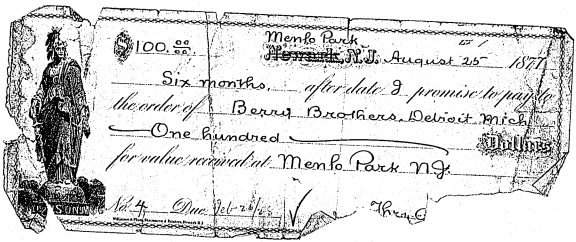
MANUFACTURERS

Detroit, Mich. Feb 19 1878

Mr T A Edison
Menlo Park
Dear Sir

You note mgs
for mos feb 100 Pay the
Feb 28 & will be presented
at No 20 New Church St N Y

Yours
Berry Bros
per



$100.00 Menlo Park ~~Newark, N.J.~~ August 25 1877

Six months after date I promise to pay to the order of Berry Brothers, Detroit Mich.

One hundred Dollars

for value received at Menlo Park N.J.

No. 4 Due Feb 28/78 Thos A Edison

(Feb 26)

Mr J. Lyon Americus Stamp for
To T. A. Edison

Wire not before and I am
out for ten minutes

Sig Wm H. Kirk

To A Edison (Feb. 26?)

Will you take up your
note today answer by wire

W.H. Kirk
Newark N.J.

Yes. T A Edison

Menlo Park N.J.
March 3rd 78

I will pay to the order of A S Denman
one hundred dollars on the Tenth of
March

T A Edison

J. T. MURRAY,
MANUFACTURER OF
TELEGRAPH INSTRUMENTS,
NOS. 10 & 12 WARD STREET.

Newark, N. J., April 6 1878

Recv'd from T A Edison
$200 Two hundred Dollars to be
Returned as soon as possible
as accomodation to Wm H Kirk
for Rent of Shop 10 Ward st.
J. T. Murray

Said check was Chas Batchelors
Payable to T A Edison Payable
to J. T. Murray Payable to
Wm H Kirk

John Q. Jones, President.
Geo. G. Williams, Cashier.

P. O. Box 389.

Chemical National Bank

New York, July 1, 1874

Wm A Edson Esq. Cashier.

Dear Sir:

Herein please receive for collection

Yr note $100 fall by your counter

Respy

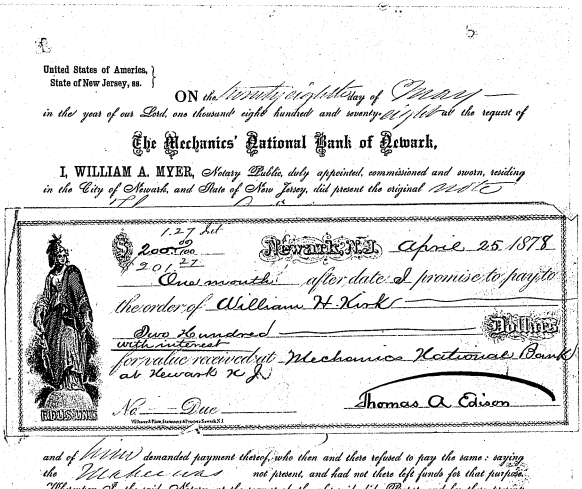
Denton

United States of America,
State of New Jersey, ss.

ON the twenty eighth day of March in the year of our Lord, one thousand eight hundred and seventy eight at the request of

The Mechanics' National Bank of Newark,

I, WILLIAM A. MYER, Notary Public, duly appointed, commissioned and sworn, residing in the City of Newark, and State of New Jersey, did present the original note



and of him demanded payment thereof, who then and there refused to pay the same: saying the Makers not present, and had not there left funds for that purpose. Whereupon I, the said Notary, at the request of the aforesaid, did Protest, and by these presents do publicly and solemnly Protest, as well against the Drawer and Endorsers of the said note as against all others whom it doth or may concern, for exchange, re-exchange, and all costs, charges, damages, and interest already incurred, and to be hereafter incurred for want of payment of said note.

THUS DONE AND PROTESTED in the City of Newark aforesaid in the presence of JOHN DOE and RICHARD ROE, witnesses.
IN TESTIMONIUM VERITATIS.

W. A. Myer
Notary Public.

RECORDED IN BOOK, No. 98

1

United States of America, }
State of New Jersey, ss. }

ON the twenty eighth day of May in the year of our Lord, one thousand eight hundred and seventy eight at the request of

The Mechanics' National Bank of Newark,

I, WILLIAM A. MYER, Notary Public, duly appointed, commissioned and sworn, residing in the City of Newark, and State of New Jersey, did present the original note made by Thomas A. Edison at six months for $200 with interest dated Newark N.J. April 25. 1878. and hereunto annexed, at the Mechanics National Bank of Newark. to the Paying Teller.

and of him demanded payment thereof, who then and there refused to pay the same: saying the Makers not present, and had not there left funds for that purpose. Whereupon I, the said Notary, at the request of the aforesaid, did Protest, and by these presents do publicly and solemnly Protest, as well against the Drawer and Endorsers of the said note as against all others whom it doth or may concern, for exchange, re-exchange, and all costs, charges, damages, and interest already incurred, and to be hereafter incurred for want of payment of said note.

THUS DONE AND PROTESTED in the City of Newark aforesaid in the presence of JOHN DOE and RICHARD ROE, witnesses.
IN TESTIMONIUM VERITATIS.

W. A. Myer
Notary Public.

RECORDED IN BOOK, No. 98

Memorandum Voucher Receipts

Thomas A. Edison
For
O. S. Baldwin Cashier

Note of	201,27
Due X Postage	1,64
	202,81

May 28. 1878.

B. D.

W. H. J. Tilton

Chgd

Rd check	202,81
	201,50
Due N.Y. Kalk Co.	1,31

Please remit the same
N.Y. K. Co

Dft 1127

$200.00
201 27

Newark, N. J., May 28th 1878

To William H Kirk,

You will please to take notice, that Thomas A Edison's note for Two hundred Dollars with interest

Endorsed by you, was, after due presentment, demand of payment, and refusal to pay the same, PROTESTED *This Evening* for non-payment, and that the holder looks to you for the payment thereof.

Your obedient servant,

W H Kirk

Notary Public.

For the MECHANICS' NATIONAL BANK, *at Newark.*

May 28
June 28
July 28

Newark June 25th 1878

Received of J. H. Edwards Twenty dollars & three 70/100 dollars, to pay his note due June 27/78 also for the loan on Suit note

$20.37 22 W. H. Kirk & Co

We'll mail you the note

Kirk.

20.37 22
20.70
20.70

United States of America,
State of New Jersey, ss.

ON the twenty second day of July in the year of our Lord one thousand eight hundred and seventy 8. at the request of

The Mechanics' National Bank of Newark,

I, WILLIAM A. MYER, Notary Public, duly appointed, commissioned and sworn, residing in the City of Newark, and State of New Jersey, did present the original Note

Thomas R. Elliott

Stamp

$250 00 Newark N.J. June 28 1875

Four months after date I promise to pay to the order of Mr. R. Stark

Two hundred & fifty Dollars

at the Mechanics Nat bank

Value received

No Due

and of Same demanded payment thereof, who then and there refused to pay the same; saying the Maker was not present, and had not there left funds for that purpose. Whereupon I, the said Notary, at the request of the aforesaid, did Protest, and by these presents do publicly and solemnly Protest, as well against the Drawer and Endorsers of the said Note as against all others whom it doth or may concern, for exchange, recexchange and all costs, charges, damages, and interest already incurred, and to be hereafter incurred for want of payment of said Note

THUS DONE AND PROTESTED in the City of Newark, and State aforesaid, in the presence of JOHN DOE and RICHARD ROE, witnesses.
IN TESTIMONIUM VERITATIS.

RECORDED IN BOOK, No. 99

W. A. Myer Notary Public.

United States of America,
State of New Jersey, ss.

ON the twenty second day of July in the year of our Lord, one thousand eight hundred and seventy 8, at the request of

The Mechanics' National Bank of Newark,

I, WILLIAM A. MYER, Notary Public, duly appointed, commissioned and sworn, residing in the City of Newark, and State of New Jersey, did present the original note made by Thomas A. Edison at three months for $250, with Interest dated Menlo Pk. April 25 1878 and hereunto annexed, at the Mechanics National Bank of Newark to the Paying Teller.

and of him demanded payment thereof, who then and there refused to pay the same; saying the Maker was not present, and had not there left funds for that purpose. Whereupon I, the said Notary, at the request of the aforesaid, did Protest, and by these presents do publicly and solemnly Protest, as well against the Drawer and Endorsers of the said note as against all others whom it doth or may concern, for exchange, recexchange and all costs, charges, damages, and interest already incurred, and to be hereafter incurred for want of payment of said note

THUS DONE AND PROTESTED in the City of Newark, and State aforesaid, in the presence of JOHN DOE and RICHARD ROE, witnesses.
IN TESTIMONIUM VERITATIS.

W. A. Myer Notary Public.

RECORDED IN BOOK, No. 99

Mechanics Nat'l Bank
Newark N.J.
Received on account of
Address Prot. & Expenses

Thomas A. Edison
for
O. S. Baldwin Cashier
Note V. Sotant $2564.50
Gen'l Postage 1.54
2560.04
July 27 1878
2.27
2558.26
8.0
2550.26
1.59
2548.67
Wm Hill

Signature gone
3/21/30
M.C.N.

Cr to Chair
Cop

July 29 78

From Newark

To S L Griffin. N. J.

Edisons note protested will you pay it to day

Sig W. H Kirk & Co

T. A. EDISON,

Menlo Park, N. J., July 29 1878

W. H. Kirk & Co

Newark N J

Cant attend to Edisons note until he returns

S. L. Griffin

9 C.H.c.t

Acknowledged July 31 78

Newark Aug 29th 78

S L Griffin Esq

Dear Sir

Your letter of 27th is at hand, we received it after we had sent you the telegram. The note has been protested. and we can not pay it as we have not the funds to do it. We assure you it will put us to great inconvenience if you do not take care of this note. Mr Bachelor we think can fix it if he will.

Please reply by return mail and oblige by holding check

Yours respectfully

W. H. Kirk & Co.

vs.

New Office of
THEO. ARNOLD.
67 Wall Street.

New York, Augt 29 1878

Thos E Edison Esq

Dear Sir

J. B. Dobleman has placed in my hands for collection his claim against late firm of Edison & Murray of which you were a member for Wdse sold $50.55

Your attention is called to the same and a settlement requested, to save further expenses.

Yours respfly

Theo Arnold

T. A. EDISON. 1 11 10 Am

Menlo Park, N. J., Sept 2d 1878

Newark NJ 22d 78

T A Edison Menlo Park

Will you send check today

W H Kirk

SAH

AG

New Office of
THEO. ARNOLD.
67 Wall Street.

New York, Sept 13 1878

Thos A Edison Esq
Dear Sir

Replying to your note expressing ignorance of claim of J B Dobelmann against you I would say that on investigation the same appears to be on a note of Gillilland & Co dated Jany 10. 76 to your order & endorsed by you for $75.55 of which $25. has been paid, leaving the balance for which I wrote you $50.55

The note was regularly protested at Newark City Bank and there is now due thereon $50.55 & $1.35 protest

Much please remit

Yours &c

Theo Arnold

5550

Will Carman
Put on list
of Creditors
Date
9
J. B. Lightbourn Esq.
Ret'd
Will O.C.

vs

Law Office of
THEO. ARNOLD,
67 Wall Street.

New York, Sept 25 1878

Prof Thos A Edison
dear sir

Some few days ago I wrote you in reference to claim of J P Dobelmann against you, explaining its nature.

My client desires me to write you again and to say that an arrangement of the same would save further expense

Yours &c
Theo Arnold

Newark Oct 8th 1875

J A Edwin Esq

Dear Sir

I pay that note I gave you promised
which was yesterday. The note
was due July 17th The balance
of the note is 181.69 and added
Mr Kirk has been all months
Park Four or five times on this
promise Please send us a check
to day as we are much in want
of money

Yours Respectfully
W & J Kirk Co

No. One

Menlo Park Cal. Oct. 10th 1878

One Months after date I Promise to Pay

to the order of David Davis

Twenty five Dollars, 25/100

Value Received.

No. One

M. L. M. Hussey

No. Two

Menlo Park Oct. 10th 1878

Two Months after date I Promise to Pay

to the order of David Davis

One hundred Dollars, 00/100

Value Received.

No. Two

M. L. M. Hussey

No. Three

Menlo Park Oct. 10th 1878

Three Months after date I Promise to Pay

to the order of David Davis

One hundred Dollars, 00/100

Value Received.

No. Three

M. L. M. Hussey

No. Four

Menlo Park Oct. 10th 1878

Four Months after date I Promise to Pay

to the order of David Davis

One hundred Dollars, 00/100

Value Received.

No. Four

M. L. M. Hussey

No. Five

Menlo Park Oct. 10th 1878

Five Months after date I Promise to Pay

to the order of David Davis

One hundred Dollars, 00/100

Value Received.

No. Five

M. L. M. Hussey

Thomas A. Edison
David Davies
Oct 10 1878

Hussey Note
Oct 10 1878
Thomas A. Edison

Thomas A. Edison
Oct. 10th 1878

Oct 10 1878
Wm & Wm Hussey
Thomas A. Edison
Oct 10 1878

Wm & Wm Hussey
Note No. 102
Thomas A. Edison
David Davies
Oct 10 1878

No. 102

Hussey Note

Jeremiah Quinlan
158 & 160 William Street

$15 02/100 — New York, October 12th 1878.

Three days sight — Pay to the order of Myself

Fifteen 02/100 Dollars

WITH EXCHANGE ON NEW YORK.

Value received, and charge the same to account of

To Mr Thomas A. Edison
Menlo Park
New Jersey

Jer Quinlan

~~A. T. STEWART & CO.~~

~~Wholesale and Retail Dealers in Silks, Velvets, Dress Goods, Shawls, Cloaks, Furs, Linens, Hosiery, Gloves, Ribbons, Laces, Embroideries, Fancy Goods, Trimmings, Ladies' Underwear, Gents' Furnishing Goods, Carpets, Oil Cloths, Mattings, Upholstery Goods, Curtains, Furniture, Bedding, Etc.~~

~~NEW YORK.~~

222 Henry St
Brooklyn E.D. Oct 14th 1878

Dear Sir:

~~We have the pleasure of enclosing our receipt in full for~~

I have a draft on you from Jeremiah Quinlan at 3 days sight for 15.02/100. Will you please to tell me how to collect it? I do know a Bank in your town but not the name of it. You early reply will oblige Yrs &c Alex: V. Blake

---

222 Henry St
Brooklyn Oct 19. 1878

Dear Sir I wrote to you several days ago but have had no reply. I have a draft on you from Jeremiah Quinlan for 15.02/100 will you please to remit the amount to me by mail or I will send you the draft or if you cannot do that, let one know if there is a bank in your town & you I can to collect the draft. Your early reply will oblige Yrs &c Alexander V. Blake

---

Dear Sir: Just received 222 Henry St
Brooklyn E.D. Oct 31. 1878

I have a draft on you from Mr J. Quinlan for 15.02/100. Will you please to remit the amount to me by mail, or tell one how to collect it & oblige

Yrs &c

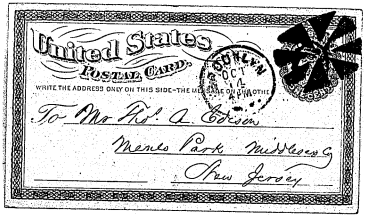
An early reply will oblige

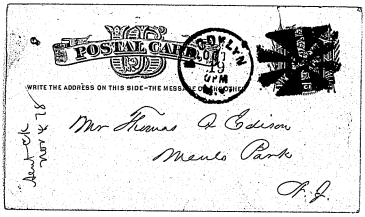
Alex: V. Blake

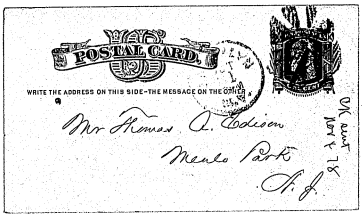
Newman
Oct 1 1880

Mary to wear
Mr. A. V. Blake
Old Quantico
Va.

Rec'd Reported
Lib. Rec'd
Chas. H. Parke







J A Cannon

Dear Sir

I expected to have a few minutes with you to day to say that your notes were all correct but the one for 3 mos which you have for $200 which should have been $250 agreeably to statement. Please send me a note for 3 mos for $250 with interest and I will return to you your note

And oblige

Your Obt

M H Kane

1878. Edison, T.A. - Time Sheets (D-78-017)

This folder contains time sheets for laboratory personnel (1878-1879) and for construction workers. Only the time sheets for laboratory personnel have been selected. Payroll accounts for construction workers can be found in Account Book, Cat. 1220, Accounts Series.

Menlo Park
~~Newark~~, N. J., June 7 1878

Edison & Unger,

TIME SHEET.

For M. Cendrat

Week Ending June 8

Saturday, [illegible] 2 hours
[illegible] 5

Monday, [illegible] 8
[illegible] and drawing 5

Tuesday,

Wednesday, [illegible] 2

Thursday, Box and packing 10

Friday, Shower [illegible] packing Boxes

Menlo Park
~~Newark~~, N. J., June 8th 1878

Edison & Unger,

TIME SHEET.

For Chas Batchelor

Week Ending

Saturday, Telephone 10

Monday, Telephone 14

Tuesday, Phonograph 14

Wednesday, Miss Lazarnelli 14

Thursday, Phonograph 14

Friday, Phonograph 14

Menlo Park
~~Newark~~, N. J., June 8th 1878

Edison & Unger,

TIME SHEET.

For Geo Carman

Week Ending June 15th

Saturday, New York

Monday, Lamp Black

Tuesday, Lamp Black & New York

Wednesday, Lamp Black & Newark

Thursday, New York Lamp Black

Friday, Lamp Black & New York

Newark, N. J., 187

Edison & Unger,

TIME SHEET.

For Wm Carman

Week Ending

Saturday, Tracing

Monday, Tracing & filing scrolls

Tuesday, Tracing

Wednesday, Tracing & filing papers

Thursday, Tracing & filing scrolls

Friday, Tracing

Menlo Park

~~Newark, N. J.~~ June 8th 1878

Edison & Unger,

TIME SHEET.

For Alex. Craig

Week Ending Friday 14th.

Saturday, Fill Carbons for Telephone

Monday, Lampblack & Electropoint

Tuesday, Lampblack & Electropoint

Wednesday, Lampblack & Electropoint

Thursday, ~~Lampb~~

Friday, Lampblack & Photography

Menlo Park

~~Newark, N. J.~~ June 8th 1878

Edison & Unger,

TIME SHEET.

For Chas Edison

Week Ending

Saturday, 10 hours Telephone

Monday, 16 "

Tuesday, 14 "

Wednesday, 16 "

Thursday, 12 "

Friday, 15 "

83 hours.

Newark, N. J. June 7th 1878

Edison & Unger,

TIME SHEET.

For Week Ending June 8th

Week Ending

Saturday, Spent

Monday, all the

Tuesday, week

Wednesday,

Thursday,

Friday, T. A. Edison

Newark, N. J. 1873

Edison & Unger,

TIME SHEET.

For Albert Ekstrom

Week Ending

Saturday, Phonograph P.O. Model 7 hours

Sunday Telephone Bracket 3 "

Monday, Telephone Bracket 7 "

Pressure Relay 5 "

Tuesday, Telephone Bracket 2 1/2 "

Fresher Relay 5 1/2 "

Speaking Telephone Experiment 3 "

Wednesday, Speaking Phonograph Experiment 3 1/2 "

Speaking Telephone Experiment 9 "

6 Coils for Telephone 1 1/2 "

Thursday, do do 9 1/2

Friday, do do 3 1/2

Pressure Relay 4

Menlo Park
~~Newark~~, N. J., June 8th 1878

Edison & Unger,

TIME SHEET.

For Chas F Flammer

Week Ending June 14th

Saturday, 5 on Telephone 2 on gas fixtures

Monday, 11½ hours on Telephone

Tuesday, 15 hours on Telephone

Wednesday, 13 hours on Telephone

Thursday, 10 hours on Telephone

Friday, 2 Telephone 8 on Phonograph

Menlo Park
~~Newark~~, N. J., June 8th 1878

Edison & Unger,

TIME SHEET.

For M. Force

Week Ending

Saturday, Fixtures for Telephones

Monday, Fixtures " "

Tuesday, " " "

Wednesday, Fitting in Edison gas for Telephones

Thursday, Fixtures for telephones

Friday, " " "

Menlo Park
~~Newark~~, N. J., June 8th 1878

Edison & Unger,

TIME SHEET.

For John F Ford

Week Ending

Saturday, 7 hours on Phonograph

Monday, 10 hours on telephone

Tuesday, 10 hours on Telephone

Wednesday, 3 hours tools shop 7 H hours on Phone Phonograph 3 H Telephone

Thursday, 2 H Telephone 7 H hours Phonograph 7 hours shop tools

Friday, 2 H tools 2 H on Phonograph Experimental Group 5 hours Phonograph

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Newark, N. J., June 15th 1878

Edison & Unger,

TIME SHEET.

For S. L. Griffin

Attending Office

Week Ending June 15th

Saturday,

Sunday 9 a.m. 11½ P.m.

Monday, 8 a.m. 11½ P.m.

Tuesday, 7½ a.m. 12½ a.m.

Wednesday, 8 a.m. 6 P.m.

Thursday, 7½ to 10½ P.m.

Friday, 8 – 12½ a.m.

Unen Co Bustle

~~Newark~~, N. J., 187

Edison & Unger,

TIME SHEET.

For Jackson

~~Submit~~ Week Ending June 15th

Chem Phonograph Experiment 1 hr 1/2

Saturday, Lazy Phonograph 8

~~Monday~~ Chem Phonograph Experiment 12

Monday, New Road Telephone Job 13

Tuesday, Quadruplex Rheostat 13

Wednesday, Quadruplex Rheostat 10

Thursday, Edisons Micro Tasimeter & Magnetizing Magnet 9 1/2

Friday, 65

Total 66

Menlo Park

~~Newark~~, N. J., June 8th 1878

Edison & Unger,

TIME SHEET.

For J. Kruesi

Week Ending

Saturday, Phonograph & Telephone

Sunday, Telephone

Monday, Microphone & Carbon Transmitter

Tuesday, Phonograph experiment Telephone

Wednesday, State services Telephone Quadruplex Rheostat

Thursday, Telephone Phonograph experiments

Friday, Telephoning Tasimeter & Phonograph.

Menlo Park

~~Newark~~, N. J., June 8th 1878

Edison & ~~Unger~~,

TIME SHEET.

For (Thomas Lozier)

Week Ending

Saturday, new hand Phonograph 2 h

on putting on tin 9 h

Monday, on telephones 10 h

on new hand Phonograph rush 8 h

Tuesday, on telephones 6 h

Wednesday, on telephones 9 h

on milling tools 3 h

Thursday, filling on telephone 3 h

turning on Phonograph shaft 5 h

" on milling tools 2 h

Friday,

turning on Tasimeter 10

Menlo Park

~~Newark~~, N. J., June 8th 1878

Edison & Unger,

TIME SHEET.

For Astrid Hanson

Week Ending June 14th

Saturday, Shop Work Gas fitting 8 hrs

Monday, Shop Work Telephones 3 hrs

Tuesday, Shop Work Telephones 2 hrs

Wednesday, Shop Work

Thursday, Shop Work

Adjusting Magnet 5 hours

Friday, Shop Work

Menlo Park,

Newark, N. J., June 8th 1878

Edison & Unger,

TIME SHEET.

For T. N. Segel

Week Ending June 14th

Saturday,	Phonograph Paper 5 2 Tape Recorders 2	7
Monday,	Monday Tape Telephone 2 2 Mouthpieces mouth piece 4 4 Mouth piece 6	13
Tuesday,	6 Wipers 2 Experiment Transmitt Telephone 6	13
Wednesday,	Over 6 T. Tap. 2 phone Telephone Bottom Turns 4 phone 6 Tape for Telephone 6 phone	12
Thursday,	6 Phonograph Wh. 6 Lower Magnet	12
Friday,	Magnet 8 Phonograph 2	10

Menlo Park

Newark, N. J., June 15th 1878

Edison & Unger,

TIME SHEET.

For Mr. Andrus

Week Ending June 21st.

Saturday,

Monday, Edis 2

Tuesday, Magnaphone 12

Wednesday, " 10

Thursday, Telephoning 5

Friday, 31

Menlo Park

Newark, N. J., June 15th 1878

Edison & Unger,

TIME SHEET.

For (Batchelor)

Week Ending June 21st 1878

Saturday, Phonograph 10

Monday, Telephone 14

Tuesday, Mics Tasimeter 14

Wednesday, Mics Tasimeter 14

Thursday, Telephone & Phone 4

Friday, Aerophone 14

Menlo Park

Newark, N. J., June 14th 1878

Edison & Unger,

TIME SHEET.

For Geo. Carman

Week Ending June 21.

Saturday, Newark & New York

Sunday Telephone

Monday, New York.

Tuesday, New York.

Wednesday, New York.

Thursday, N. York.

Friday, New York.

Menlo Park

Newark, N. J., June 14th 1878

Edison & Unger,

TIME SHEET.

For Wm. Carman

Week Ending June 21.

Saturday, Tracing

Monday, 12o

Tuesday, 12o

Wednesday, 12o

Thursday, 12o

Friday, 12o

Menlo Park

~~Newark~~, N. J., June 14th 1878

Edison & Unger,

TIME SHEET.

For Chas Edison

Week Ending June 21/78.

Saturday, Photographing

Monday, ditto

Tuesday, ditto

Wednesday, ditto

Thursday, ditto

Friday, ditto

Menlo Park.

~~Newark~~, N. J., June 15th 1878

Edison & ~~Unger~~,

TIME SHEET.

For Thos. A. Edison

Week Ending June 21.

Saturday, Sick

Monday, Sick

Tuesday, Better

Wednesday, Visitors

Thursday, Tasimiter - Megaphone etc

Friday, ~~Reporter~~ - Tasimiter, Aumphone Etc

Menlo Park

~~Newark~~, N. J., June 15th 1878

Edison & Unger,

TIME SHEET.

For Alb. Ekstrom

Week Ending June 21 78.

Saturday, Patent Model Phonograph 8 —

Monday, Patent Model Phonograph 4 — 5
Pressure Relay 4 —
45 Diaphragms Repaired 2 1/2

Tuesday, Pressure Relay 9 —
Coil for Telephone 2 1/2
P. Relay & Key 1 1/2

Wednesday, 1 Cutter Pressure Relay 4 1/2
Telephone Repaired 8 1/2

Thursday, P. Relay & Key 1.0

Friday, P. Relay & Key 4 —

55 1/2

Menlo Park

~~Newark~~, N. J., June 15th 1878

Edison & Unger,

TIME SHEET.

For Chas Flammes

Week Ending June 21st.

Saturday, 6 Phonograph (magnet of fool
Cleaning ish
~~Tuesday, 1 Tel. & Inter Tel. Cleaning~~

Monday, 2 Telphone 2 Phonograph
Cor 6 mouth pieces

Tuesday, 1 Phono 1 mouth piece 11 screws on nuclei
points for phonograph

Wednesday, 3 on nuclei screws 7 hours on
nuclei points for Phonograph

Thursday, 7 hours on nuclei points for Phonograp
3 mouthpiece mouth screws

Friday, 2 washing Cylinder 4 washing
Polishing screws 4 hours on Washing
for Galvanometer

Menlo Park

~~Newark~~, N. J., June 15th 1878

Edison & ~~Unger~~,

TIME SHEET.

For Mr. Rose

Week Ending June 21st.

Saturday, Telephones 14

Monday, Phones [illegible]

Tuesday, Telephones 14 [illegible]

Wednesday, telephones 15

Thursday, Telephones 13

Friday, telephones 13

Phonograph 4 [illegible]

Menlo Park

~~Newark~~, N. J., June 15th 1878

Edison & ~~Unger~~,

TIME SHEET.

For S. L. Griffin

Week Ending June 21st.

Attending Office

Saturday, 8 a.m. 11½ P.m.

Monday, 7½ a.m. - 11 P.m.

Tuesday, 7½ a.m. 12½ P.m.

Wednesday, 8½ a.m. 12 P.m.

Thursday, 7½ a.m. - 12 P.m.

Friday, Buying ponies in N.Y. - Office Work from 7 P.m. to 11½

Menlo Park

~~Newark~~, N. J., June 15th 1878

Edison & ~~Unger~~,

TIME SHEET.

For J. Flood

Week Ending June 21st.

Saturday, 2½ hours Phonograph Experiment 6½ hours Chem. Phonograph 9

Monday, 7 hours Phonograph 1 Experiment 5 hours Micro Tasimeter 5 hours Phonograph 13

Tuesday, 2 hours Phonograph 2 hours Experiment 2 hours Phonograph 1 Experiment 2 hours Tel. Line 6 hours Micro Tasimeter 13

Wednesday, 7 hours Telephone 6 hours Shop Shaping Machine 13

Thursday, 5 hours Shop 2½ hours Pendulum 2½ hours Chemphone 10

Friday, 7 hours Chemphone 10

68

Menlo Park

~~Newark~~, N. J., June 15th 1878

Edison & Unger,

TIME SHEET.

For Geo. Jackson

Week Ending June 21st.

Friday, Micro Tasimeter 3 Phonograph Experiment 4

Saturday, Micro Tasimeter 8

Micro Tasimeter

Monday, 12

Micro Tasimeter

Tuesday, 13

Micro Tasimeter

Wednesday, 13

Thursday, Micro Tasimeter ~~Phonograph~~ 10

Micro Tasimeter

Friday, Chemphone 10

Total 70

Menlo Park.

~~Newark~~, N. J., June 14 1878

1

Edison & Unger,

TIME SHEET.

For J Kruesi

Week Ending June 21.

Sunday Telephone 8

Saturday, Telephon 8.

Monday, Tuesday, Tuesday, Wednesday, Thursday, Friday, Saturday

Monday, Tuesday, Wednesday, Thursday, Friday, Saturday

Monday, Tuesday, Wednesday, Thursday, Friday, Saturday

Menlo Park.

~~Newark~~, N. J., June 15th 1878

1

Edison & Unger,

TIME SHEET.

For Thos Logan

Week Ending June 21st.

Saturday, turning for tasimeter 8h

Monday, turning for tasimeter 9h

Tuesday, turning for tasimeter 13h

Wednesday, turning for tasimeter 7h

turning for mere-hand phonograph 6

Thursday,

turning for mere phonograph 10

Friday, Mere phonograph 10

Menlo Park.

~~Newark~~, N. J., June 15th 1878

1

Edison & Unger,

TIME SHEET.

For J. Sigel

Week Ending June 21st.

Saturday, Experiment on Phonograph 10

Monday,

Tuesday, Telephone 1

2 Pocket Phonographs 13

& 2 Telephone Transmitts

Wednesday, Telephone 13 hours

Thursday, 2 Pocket Phs 11 10

Electro motograph 1

Phonograph 5

Friday, Phonograph 10 hours 10

Menlo Park.

~~Newark~~, N. J., June 15th 1878

1

Edison & Unger,

TIME SHEET.

For Alb. Swanson

Week Ending June 21st.

Saturday, Repairing the Forge 3 Hours

Cleaning out the water tank 3h

Running the Engine — 8½ Hours

Sunday Telephone — 4 Hours

Monday, Running the Engine — 12 Hours

Micro-Tasimeter — 7 Hours.

Tuesday, Running the Engine — 13 Hours

Shop work & Telephone 1½ Hours

Micro-Tasimeter — 3 Hours

Wednesday, Running the Engine — 13 Hours

Telephone 4 Hours Micro-Tasimeter 2 Hours

Cleaning of the Belting — 5 Hours

Thursday, Running the Engine — 10 Hours

Shop work, Micro-tasimeter — 3 Hours

Friday, Running the Engine — 10 Hours

Micro-Tasimeter 8 Hours

Menlo Park,
~~Newark~~, N. J., June 28 1878

Edison ~~& Unger~~,

TIME SHEET.

For Ab. P. Andrus

Week Ending July 5th.

Saturday,

Monday, Basing Cases 10

Tuesday, Fog Phonographs 10

Wednesday, " " 10

Thursday,

Friday, Aisophone 10

Menlo Park,
~~Newark~~, N. J., June 28 1878

Edison ~~& Unger~~,

TIME SHEET.

For Geo. Osman

Week Ending July 5th

Saturday, Lamp Black

Sunday Lamp Black

Monday, Lamp Black

Tuesday, Lamp Black

Wednesday, Lamp Black

Thursday, " "

Friday, Lamp Black

Menlo Park,
~~Newark~~, N. J., June 28 1878

Edison ~~& Unger~~,

TIME SHEET.

For Wm Carman

Week Ending July 5th.

Saturday, Tracing - Telephone

Monday, Tracing "

Tuesday, do "

Wednesday, do "

Thursday,

Friday, Tracing Telephone

Menlo Park,
~~Newark~~, N. J., June 28 1878

Edison ~~& Unger~~,

TIME SHEET.

For Chas P. Edison

Week Ending July 5th

Saturday, Photograph

Monday, Photograph

Tuesday, Photograph

Wednesday, Photograph

Thursday, Photograph

Friday, Photograph

Menlo Park
~~Newark~~, N. J., June 28 1878

Edison & ~~Unger~~,

TIME SHEET.

For A. Ostrom

Week Ending July 5th

Saturday, Galvanometer 10

Monday, New Receiver 9 1/2

Tuesday, New Received 10

Wednesday, New Receiver 5 1/2
Aerophone 4 1/2

Thursday, nine nine nine nine

Friday, Aerophone 2
Pressure Relay 7 1/2
48 1/2

Menlo Park
~~Newark~~, N. J., June 28 1878

Edison & ~~Unger~~,

TIME SHEET.

For Chas. Flammer

Week Ending July 5th

Saturday, 9 hours on Tel. phone

Monday, 8 hours on Galvanometer
2 hours on Carbon Replacer

Tuesday, 3 hours on Galvanometer for
Telephone 1 hour on carbon Replacer
6 hours on Galvanometer

Wednesday, 8 hours on Galvanometer
1 1/2 Telephone 1/2 hour Carbon Replacer

Thursday, did not work

17

Friday,

Menlo Park
~~Newark~~, N. J., June 28 1878

Edison & ~~Unger~~,

TIME SHEET.

For A. Price

Week Ending July 5th

Saturday, Telephones 12

Monday, Telephones 12
Telephones 12

Tuesday, "
"

Wednesday, "

Thursday,

Friday,

Newark, N. J. July 5th 1878

Edison & Unger,

S. L. Griffin

TIME SHEET.

For Week Ending July 5th 78

Attending office

Week Ending

Saturday, 7 a.m. to 10 21 West to N.Y. to
buy horses returned 5-12 m. & 5-16 10 m.
Sunday 8 a.m. to 10 PM

Monday, 7 Ham 6 21 P.m. The Gong Galvs

Tuesday, 5 30 P.m. 11 PM

Wednesday, 7 A m 12 Midnight

Thursday, 7 30 A.m. 10 P.M.

Friday, 7 30 AM

S L Griffin

Menlo Park
~~Newark~~, N. J., June 28 1878

Edison & Unger,

TIME SHEET.

For J. Ford

Week Ending July 5th

Saturday, 8 hours Rivers Tasimeter	8
Sunday 8 hours Rivers Tasimeter	8
Monday, 10 hours Rivers Tasimeter	10
Tuesday, 12 hours Rivers Tasimeter	12
Wednesday, 10 hours Rivers Tasimeter	10
Thursday,	
Friday, 10 hours Rivers Tasimeter	10
	60

Menlo Park
~~Newark~~, N. J., June 28 1878

Edison & Unger,

TIME SHEET.

For Geo Jackson

Week Ending July 5th

Saturday, Airophone	8
Monday, Airophone	9
Tuesday, Airophone	10
Wednesday, Airophone	13
Thursday,	
Friday, Airophone	6½
Total	46½

Menlo Park
~~Newark~~, N. J., June 28 1878

Edison & Unger,

TIME SHEET.

For Thos. Logan

Week Ending July 5.

Saturday, on Tasimeter	8½
Monday, on Tasimeter	8½
Tuesday, on Tasimeter	8½
new receiver for telephone	8½
Wednesday, new receiver for telephone	10½
Thursday,	36½
Friday,	

Menlo Park
~~Newark~~, N. J., June 28 1878

Edison & Unger,

TIME SHEET.

For J. Sigel

Week Ending July 5th

Saturday, Telephone new receiver	10
Monday, new receiver	3
Repeater	7
Tuesday, Repeater	10
Wednesday, Repeater	8
Centrefugal Telegraph	2
Thursday, ~~[illegible]~~ Tasimeter	
Looking receiver	3
Friday, Minors Galvas.	
new receiver	10

Menlo Park
Newark, N. J., June 28, 1878

Edison & Unger,

TIME SHEET.

For Astrid Swanson

Week Ending July the 5th

Saturday, Firing and Running the Engine 9 Hours
Shop work Cleaning Machinery
Monday, Sunday Cleaning out the Boiler
Firing and Running the Engine 10 Hours
Working on Parrell Platt's Shop work
Tuesday, Firing and Running the Engine 10 Hours
Shop work and Cleaning
Wednesday, Firing and Running the Engine 10 Hours

Thursday, The Fourth of July

Friday, Running the Engine 10 Hours
Shop work. Ass Plates for Tray of Instrument 9 Hours

Menlo Park
Newark, N. J., June 28 1878

Edison & Unger,

TIME SHEET.

For Geo. Whitney

Week Ending July 5th

Saturday, Laboratory work and Carbon
Monday, Laboratory work and Carbon
Tuesday, Laboratory work and Carbon
Wednesday, Laboratory work
Thursday, fourth of july
Friday, Laboratory work and cleaning Batteries

Menlo Park
~~Newark~~, N. J., July ~~15~~ 14 1878

Edison & ~~Unger~~,

TIME SHEET.

For Mr Andrews

Week Ending July ~~13th~~ (July 12)

Saturday,

Monday, Anything Box 4 hours

Tuesday, morning ~~[illegible]~~ Edison Book

Wednesday, morning Traffic 10

Thursday, Letter writing Box 10

Friday, Box and Pattern 1 P

45

Menlo Park
~~Newark~~, N. J., July ~~15~~ 5 1878

Edison & ~~Unger~~,

TIME SHEET.

For P. Carman

Week Ending July 13th

Saturday, New York

Monday, Lamp black

Tuesday, Lamp black

Wednesday, New York

Thursday, New York

Friday, New York

Newark, N. J., July 5 1878

Edison & Unger,

TIME SHEET.

For Wm Carman

Week Ending July 12. 878

Saturday, Trying Opt. Telephone

Monday, "

Tuesday, "

Wednesday, Holiday "

Thursday, "

Friday, "

Menlo Park
~~Newark~~, N. J., July 6 1878

Edison & ~~Unger~~,

TIME SHEET.

For Albert Ehrstrom

Week Ending July 13th

Saturday, Pressure Relay 5 –

Monday, Pressure Relay 2 1/2
Stateoscope 6 –
Aerophone 4 –

Tuesday, New Receiver 7 1/2
Hand motograph 2 1/2

Wednesday, Hand motograph 2 1/2
New Receiver 1
Pieces for Instrument 6

Thursday, Pieces " " " 10

Friday, Phonautograph 8 1/2
Pieces for Instrument 2 1/2

Menlo Park

~~Newark, N. J.~~ July 6 1878

Edison & Unger,

TIME SHEET.

For Chas Flammer

Week Ending July 12th

Saturday, 7 hours on Galvanometer

2 on Platinum handles

Monday, 4 on keys 4 on Galvanometer 2 on Platinum handle 3 hours on Bichelo

Tuesday, 2 on Phonograph 1 hour on patterns 7 hours on keys and Bases

Wednesday, 7 hours on Platinum handles 1 on gauges for slide rest

Thursday, 1 hour on gauges 8 hours on casting for slide rest

Friday, 5 hours polishing & fitting Galvanometer 3 hours burning Galvanometer & hours burning also work for Galvanometer

Menlo Park

Newark, N. J. July 5th 1878

Edison & Unger,

TIME SHEET.

For Martin Force

Week Ending July 12th.

Saturday, Telephone 12

Sunday Running Wires 18

Monday, Telephones 12

Tuesday, " 10

Wednesday, Phonograph gauges 14

Thursday, " 10

Friday, Telephones 10

Newark, N. J. July 10 1878

Edison & Unger,

TIME SHEET.

For T. L. Pierce

Week Ending July 12th

Attending office

Saturday,

Monday,

Tuesday,

Wednesday, Picking up at the beach all day

Thursday,

Friday,

Menlo Park

~~Newark, N. J.~~ July 6th 1878

Edison & Unger,

TIME SHEET.

For J. Hood

Week Ending July 12th

Saturday, 9 hours Pierce Galvanometer 9

Monday, 13 hours Pierce Galvanometer 13

Tuesday, 12 hours Pierce Galvanometer 12

Wednesday, 12 hours Pierce Galvanometer 12

Thursday, 13 hours Pierce Galvanometer 13

Friday, 10 hours Pierce Galvanometer 10

Menlo Park
~~Newark~~, N. J., July 5th 1878

Edison ~~& Unger~~,

TIME SHEET.

For Geo Jackson

Week Ending July 12th

Saturday,	Carbon	10
Monday,	Airophone	13
	Airophone	14
Tuesday,	Micro Tasimeter	10
Wednesday,	Micro Tasimeter	5
	Phonautograph	16
Thursday,	Micro Tasimeter	15
	Phonautograph	13
Friday,	Micro Tasimeter	10
Total		58

T. A. EDISON,

Menlo Park, N. J., June 5th 1878

Time Sheet for J. Kruesi

Work ending July 12th

Saturday Tasimeter

Sunday Galvanometer

Monday Phonautograph.

Tuesday " Airophone

Wednesday Pressure Relay &c

Thursday Carb. Press &, Mould

" Tasimeter

Friday Sand motograph

Jew receiver f. Telephone.

Menlo Park
~~Newark~~, N. J., July 6th 1878

Edison & ~~Unger~~,

TIME SHEET.

For Thos. Sagan

Week Ending July 12th

Saturday, on hand Motograph 9h

Monday, on Phonautograph 12h

Tuesday, on Phonautograph 8h
on Tasimeter 2h

Wednesday, on Phonautograph 7h
on Tasimeter 3h

Thursday, on Tasimeter 10h

Friday, on Phonautograph 11½h
41½

Menlo Park
~~Newark~~, N. J., July 6 1878

Edison & ~~Unger~~,

TIME SHEET.

For J. Segel

Week Ending July 12th

Saturday, Carbon mod 8½
Galvanometer 2½ 10

Monday, Galvanometer 6½
Dial for Tasimeter 2
Phonautograph 5

Tuesday,
Phonautograph 5
Dial for Tasimeter 3
Humble Tasimeter Carbon 2

Wednesday,
Carbon mould 10

Thursday, Carbon mould 7
Phonautograph 3

Friday, Carbon mould 10
Total 63 hours

Menlo Park
~~Newark~~ N. J., July 6th 1878

Edison & ~~Unger~~,

TIME SHEET.

For Alfr. Swanson

Week Ending July 12th.

Saturday, Firing and Running the Engine
Hand Motograph 2 Hours Shop Work 10 Hours

Monday, Firing and Running the Engine
Phonautograph 3 Hours
Helping Andrews 5 Hours
Hand Motograph 3 Hours 13 Hours

Tuesday, Firing and Running the Engine
Phonautograph 2 Hours
Helping Andrews 5 Hours
Running on the Road 13 Hours

Wednesday, Firing and Running the Engine
Carbon Mould 3½ Hours
Chicago Tasimeter 6 Hours 10 Hours

Thursday, Firing and Running the Engine
Tasimeter 8 Hours 10 Hours

Friday, Firing and Running the Engine 10 Hours
Phonautograph 4 Hours Shop for Letty 4 Hours

T. A. EDISON,

Menlo Park, N. J., July 12 1878

Time Sheet
M. P. Andrus
week ending July 19. 1878

			hours
Saturday	packing press	4 hours	
Monday	bench and tools		10
Tuesday	tools for dams		10
Wednesday	Boxes for Bottles		10
Thursday	Miscellaneous		8
			40
Friday			

T. A. EDISON,

Menlo Park, N. J., July 12 1878

Time Sheet
Chas Batchelor
wk ending July 19. 1878

Saturday	Metrop. E. R. R.	10
Monday	Telephone & Phonograph	5
Tuesday	Metrop. E. R. R.	10
Wednesday	Metrop. E. R. R.	10
Thursday	Metrop. E. R. R.	10
Friday	Telephone	10

T. A. EDISON,

Menlo Park, N. J., July 12 1878

Time Sheet.
Geo E Barnard
week ending July 19. 1878

Saturday New York To

Monday Lamp black

Tuesday New York

Wednesday New York

Thursday Lamp black Lamp black

Friday New York

T. A. EDISON,

Menlo Park, N. J., July 12 1878

Time Sheet
Wm Carman
week ending July 19. 1878

Saturday 1/2 Tracing (Telegraph) 1/2 Books

Monday Posting Books

Tuesday Book Keeping & Scraps

Wednesday Book Keeping & Scraps

Thursday Book Keeping & Scraps

Friday

T. A. EDISON.

Menlo Park, N. J., July 12 1878

Time Sheet
C. P. Edison
Wk ending July 19. 1878

Saturday	Photographing
Monday	"
Tuesday	"
Wednesday	"
Thursday	"
Friday	"

T. A. EDISON,

Menlo Park, N. J., July 12 1878

Time Sheet
Albert Ekstrom
week ending July 19, 1878

Saturday	Galvanometer	7 1/2
	Telephone	2 1/2
Monday	Telephone	10 —
Tuesday	Telephone	1 —
	Repairing of a Tickettel	1 1/2
Wednesday	Pieces for Tasimeter	7 1/2
	ditto ditto	
	Telephone	2 —
	House Telegraph	3 —
Thursday	House Telegraph	5 —
	Telephone	1 1/2
	Pieces for Tasimeter	3 1/2
Friday	do do do	8 —
	Telephone	7 —
		65

T. A. EDISON,

Menlo Park, N. J., July 12 1878

Time Sheet

Chas Flammer

week ending July 19, 1878

Saturday Tasimeter 9 hours

Monday Tasimeter 7 hours

Tuesday Tasimeter 10 hours

Wednesday Tasimeter 4 hours
Assorting screws 6 hours

Thursday Assorting screws 7 hours

Friday Planing gauges for mould 3 hours
turning on Carbon mould 3. hours
~~[illegible]~~ Planing Carbon mould 3 h
turning 3. Cutters 2 hour

T. A. EDISON,

Menlo Park, N. J., July 12 1878

Time Sheet

Martin Force

week ending July 19, 1878

Saturday	Laboratory work	10
Monday	Telephones	10
Tuesday	Telephones	8
Wednesday	Telephones	10
Thursday	Call Bells	8
Friday	" "	8

Newark, N. J. July 19th 1878

Edison & Unger,

TIME SHEET.

For S L Griffin

Week Ending July 19th

Attending Office

Saturday,

Monday,

Tuesday,

Wednesday,

Thursday,

Friday, S L Griffin

T. A. EDISON.

Menlo Park, N. J., July 12 1878

Time Sheet
J Hood
week ending July 19.78

Saturday	9 hours Micro Tasimeter	9
Monday	10 hours Micro Tasimeter	10
Tuesday	10 hours Micro Tasimeter	10
Wednesday	10 hours Micro Tasimeter	10
Thursday	10 hours Micro Tasimeter	10
Friday	10 hours Micro Tasimeter	10
		59

T. A. EDISON,

Menlo Park, N. J., July 12 1878

Time Sheet
George J. Jackson
week ending July 19, 1878

		Hours
Saturday	Micro Tasimeter	10
Monday	Micro Tasimeter	6½
Tuesday	Micro Tasimeter	10
Wednesday	Micro Tasimeter	9
		35½
Thursday		
Friday		

T. A. EDISON,

Menlo Park, N. J., July 12 1878

Time Sheet
John Kruesi
wk ending July 19, 1878

Saturday	Philadelphia & Telephone
Monday	"
Tuesday	Carbon Pots & Moulds
Wednesday	Telephone Tasimeter
Thursday	Carbon Pots & Moulds
Friday	Telephone

T. A. EDISON,

Menlo Park, N. J., July 12 1878

T A Edison
Time Sheet
For Thomas Logan
week ending July 19. 1878

Saturday for Tasimeters	10 h
Monday for Tasimeters	9 h
Tuesday for Tasimeters	10 h
Wednesday for Tasimeters	18 h
Thursday for Tasimeters	4 h
for Carbon mould	3 h
Friday for Carbon mould	9 h
	55

T. A. EDISON,

Menlo Park, N. J., July 12 1878

Time Sheet
J. Seigel
Week ending July 19. 1878

Saturday Carbon mould Press	10
Monday Carbon mould Press	10
Tuesday Carbon mould Press	10
Wednesday Carbon mould Press	7 ½
Thursday Fuse blocks for Welding Machine	5
Vials for Vacuum Pump	5
Friday Carbon mould Press	10
Total	57 ½

T. A. EDISON,

Menlo Park, N. J., July 12 1878

Time Sheet
A Swanson
week ending July 19, 1878

Saturday - Firing and Running the Engine
Micro-Tacometer 6 Hours — 9 Hours
Monday Firing and Running the Engine 10 Hrs
Micro-Tacometer 4 Hours Carbon Press 3 Hrs
Tuesday Firing and Running the Engine 10 Hours
Carbon Press 7 Hours and 1/2
Wednesday Firing and Running the Engine 10 Hrs
Magnet 1 Hour Carbon Press 4 1/2 Hours
Thursday Firing and Running the Engine 10 Hours
Carbon Press 6 Hours Shop work.
Friday Firing and Running the Engine 10 Hours
Carbon Press 5 Hours Shop work.

T. A. EDISON,

Menlo Park, N. J., July 1878

Time Sheet
Theo Whitney
Wk ending July 19, 1878

Saturday Laboratory work
and pressing carbon
Monday Laboratory work
Tuesday Laboratory work
Metrochem
Wednesday Laboratory work
Metrochem - and
putting up Electric Bellat Edison
Thursday Laboratory work
and putting up electric Bell
at Edison's Shop
Friday
Laboratory work.
and folding papers

T. A. EDISON.

Menlo Park, N. J., July 19 1878

Time Sheet
M. Andrews
wk ending july 26

Saturday	Among windows	Specimens	10
Monday	[illegible]	[illegible]	10
Tuesday	[illegible]	Baking Box	10
Wednesday	Baking Box		8
Thursday			0
Friday	Baking	Rope	10
			48

A. EDISON.

Menlo Park, N. J., July 19 1878

Time Sheet
Chas Batchelor
wk ending july 26. 1878

Saturday	M. B. R. R. 5	Tel. 5	10
Sunday	Telephone		10.
Monday	Telephone		16.
Tuesday	Microtasimeter		15
Wednesday	Telephone		14
Thursday	Telephone		14
Friday	Telephone		10.

T. A. EDISON.

Menlo Park, N. J., July 19 1878

Time Sheet
G E Barman
wk ending July 26 - 1878

Saturday Telephones Newspaper	14
Sunday Telephones	10
Monday [illegible]	
Tuesday Telephones	
Wednesday Telephones	
Thursday Telephones	
Friday Telephones	

T. A. EDISON.

Menlo Park, N. J., July 19 1878

Time Sheet
Wm Barman
wk ending July 26. 78

Saturday	½ day tracing ½ Newark
Monday	½ Books. ½ tracing (87)
Tuesday	½ Books ½ tracing (87)
Wednesday	½ Books ½ tracing (87)
Thursday	½ Books ½ tracing (87)
Friday	½ Books ½ tracing (87)

Menlo Park, N. J., _____ 18

EDISON'S LABORATORY,

TIME SHEET,

For Chas Edison

Week ending July '78

	Shop										
Saturday,	10										
	10										
Monday,	10										
Tuesday,	10										
Wednesday,	10										
Thursday,	10										
Friday,	10										
Total.	70										

T. A. EDISON,

Menlo Park, N. J., July 19 1878

Time Sheet
A Ekstrom
wk ending July 20. 78

Saturday	Telephone	8 hours
Monday	Telephone	13 –
Tuesday	Telephone	11 1/2
Wednesday	Telephone	13 –
Thursday	Telephone	19
Friday	Telephone	10
		74 1/2

T. A. EDISON.

Menlo Park, N. J., July 19 1878

Time Sheet

Chas Flammer

wk ends july 26 - 1878

Saturday { turning Cutters 1½ h
making Patterns 4 h
winding shoes
grinding Magnetos 1 h

Monday { turning rings for Telephone 8 hs
work on Tasimeter — 2 hrs

Tuesday { work on Telphone 7 hours
" " Tasimeter 3 hours

Wednesday { helping to boys 1 h
work on Telphone 8 h

Thursday " Telphone 9 hours
Quicksilver Rheostat 1 hours

Friday { Quicksilver Rheostat 2 hours
winding shoes — 3 hrs
Tasimeter — 5 hrs

T. A. EDISON.

Menlo Park, N. J., July 19 1878

Time Sheet

Martin Force

wk ends July 26 - 78

Saturday Edisons House

Sunday Telephones

Monday Telephone

Tuesday Telephone

Wednesday ~~Telephone~~ flights

Thursday ~~Telephone~~ flights

Friday Telephone

T. A. EDISON.

1

Menlo Park, N. J., July 19 1878

Time Sheet
S. L. Griffin
wk endg July 26-78

Saturday attending office
Monday
Tuesday
Wednesday
Thursday
Friday

S. L. Griffin

T. A. EDISON.

3

Menlo Park, N. J., July 19 1878

Time Sheet
J. Hood
wk ending July 26-78

Saturday	5 hours Telephone 5 hours Micro Transmitter	10
1st		
Monday	5 hours Telephone 5 hours Micro Transmitter	10
Tuesday	10 hours Magneto for Telephone	10
Wednesday	18 hours Telephone	18
Thursday	18 hours Telephone	18
Friday	7½ hours Telephone 2½ hours Micro Transmitter	10
		71

12

T. A. EDISON.

Menlo Park, N. J., July 19 1878

Time Sheet

Geo Jackson

wk ending July 20. 78

Saturday		
Monday		
Tuesday	Micro Tasimeter	hours 5
Wednesday	Micro Tasimeter	10
Thursday	Quadruplex Rheostat	10
Friday	Quadruplex Rheostat	10
total		35

T. A. EDISON.

Menlo Park, N. J., July 19 1878

Time Sheet

Thos Logan

wk ending July 26.

Saturday	time on Carbon mould	10 h
Monday	time on Carbon mould	8 h
	time on Tasimeter	1 h
Tuesday	time on telephones	3 h
	time on well pump	7 h
Wednesday	time on well pump	3 h
	time on Carbon mould	7 h
Thursday	time on Carbon mould	8 h
	time on milling tools	2 h
Friday	time on Carbon mould	10 h
		59

T. A. EDISON.

Menlo Park, N. J., July 19 1878

Time Sheet
J. Segel
wk ending July 26. 1878

Saturday	Carbon mould Press	10
Monday	Carbon mould 5 Press Pump work 5	10
Tuesday	Pump work	10
Wednesday	Pump work	10
Thursday	Pump work	10
Friday	Pump work	6½
		56½

T. A. EDISON.

Menlo Park, N. J., July 19 1878

Time Sheet
A Swanson
wk ending July 26. 1878

Saturday Firing and Running the Engine 9 hours
Mine Thermoter 2 hours Carbon Mould 5 hours
Monday Firing and Running the Engine - 10 hours.
Carbon Mould 7 hours Shop work.
Tuesday Firing and Running the Engine 10 hours
Carbon Mould 5 hours Shop work
Wednesday Firing and Running the Engine 10 hours
Carbon Mould 8 hours and ½
Thursday Firing and Running the Engine 13 hours
Carbon Mould 6 hours Shop work
Friday Firing and Running the Engine 10 hours
parratell Block 4 hours Shop work.

T. A. EDISON.

Menlo Park, N. J., July 19 1878

Time Sheet
Theo Whitney
wk ending July 26 - 78

Saturday Laboratory work.

Monday Laboratory work

Tuesday Laboratory work.

Wednesday Laboratory work.

Thursday Laboratory work
and Electro Point

Friday Laboratory work.
Electro Point and Pressing
Carbon.

Menlo Park, N. J., July 26th 1878.

EDISON'S LABORATORY,

TIME SHEET,

For Mr. C. Ambrose

Week ending Aug. 2d.

	Megaphone	Telephony	Laboratory	[illegible]	[illegible]	[illegible]					
Saturday,				10							10
Monday,		5		5							10
Tuesday,		5			5						10
Wednesday,	5	2			3						10
Thursday,	5					5					10
Friday,	5				5						10
Total.	15	12		15	13	5					60

Menlo Park, N. J., ~~Aug 3~~ 1878.

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending Aug 2nd

	Telegraph Batt. Telephone	Megaphone	Microphone								
Saturday,	10										
	8										
Monday,	14										
Tuesday,	14										
Wednesday,	14										
Thursday,			10								
Friday,	13										
Total.											

T. A. EDISON.

Menlo Park, N. J., July 27 1878

Time Sheet
Geo. F. Barman
1st Wk endg Aug 2 1878

Saturday Telephones

Monday Telephones

Tuesday New York with Telephones

Wednesday Telephones

Thursday New York

Friday New York

T. A. EDISON.

Menlo Park, N. J., July 27 1878

Time Sheet
Jno Carman
Wk endg Aug 2 78

Saturday Books and Sht Tel Tracing

Monday Books and Tracing (Telephs)

Tuesday Books and Tracing (Telephs)

Wednesday Books and Scrap Books

Thursday Tracing Telephone

Friday Scrap Books & Book Keeping

T. A. EDISON.

1

Menlo Park, N. J., July 26 1878

Time Sheet
A Ekstrom
wk ending Aug 2. 1878

Saturday	Telephone	9 1/2 hours
monday	Telephone	12 "
Tuesday	Telephone	10
Wednesday	Telephone	10
Thursday	Telephone	2 1/2
	Megaphone	2 1/2
	Phonographs	5
Friday	Phonograph	10
		61 1/2

T. A. EDISON.

1

Menlo Park, N. J., July 26 1878

Time Sheet
Chas Plamner
wk ending Aug 2. 1878

Saturday	Tasimeter 3 hours
	Telphone 2 hours
	Megaphone 4 hours
Monday	megaphone 3 hours
	Stocking up 1 hour
	Telephone 8 hours
Tuesday	Telephone 8 hours
	megaphone 2 hours
Wednesday	Telephone 6 hours
	Megaphone 4. hours
Thursday	Megaphone 9 3 hours
	Telephone 8 1 hours
	Stocking Gas & Bunsches 6 hours
Friday	helping Fred at gas house 12 hours
	Megaphone 9 1/2 hours

Total 61 hours

T. A. EDISON.

Menlo Park, N. J., July 26 1878

Time Sheet
Martin Force
wk ending Aug 2 1878

Saturday	[illegible]	12
Monday	[illegible]	14
Tuesday	[illegible]	[illegible]
Wednesday	[illegible]	[illegible]
Thursday	[illegible]	14
Friday	[illegible]	14

T. A. EDISON.

Menlo Park, N. J., July 27 1878

Time Sheet
— Hood
wk ending Aug 2. 78

Saturday	10 hours Force Locomotive	10
Monday	12 hours Force Locomotive	12
Tuesday	10 hours Force Locomotive	10
Wednesday	9 hours Locomotive 1 hour Telephone	10
Thursday	9 hours Locomotive 1 hour Telephone	10
Friday	10 hours on Locomotive	10
		62

T. A. EDISON.

1

Menlo Park, N. J., July 26 1878

Time Sheet
Geo Jackson
wk ending Aug 2-1878

Saturday	Quadruplex Receiver	10
Monday	Quadruplex Receiver	3
	Telephones	8
Tuesday	Telephones	10
Wednesday	Telephones	10
Thursday	Telephones	13 1/2
Friday	Telephones	13 1/2
	Total	68

T. A. EDISON.

2

Menlo Park, N. J., July 26 1878

Time Sheet
John Krenger
wk ending Aug 2-78

Saturday	[illegible]
Monday	"
Tuesday	[illegible]
Wednesday	Telephone
Thursday	"
Friday	" Magnetos

Menlo Park, N. J., July 26th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Krueri

Week ending Aug 2d

	Telephone	Megaphone	Carbon Pots made							
Saturday,	10									
	6									
Monday,	6	4	2							
Tuesday,	10		2							
Wednesday,	6	7								
Thursday,	10	3								
Friday,	5		8							
Total.										

T. A. EDISON.

Menlo Park, N. J., July 26 1878

Time Sheet
Thomas A Logan
week ending Aug 2. 1878

Saturday on Carbon Model 10 h

monday on Carbon Model 8 h
on telephones 2 h

Tuesday on Carbon mould 10 h

wednesday on Carbon mould 10 h

Thursday on Carbon mould 8 h

Friday on Carbon mould 10 h

T. A. EDISON.

Menlo Park, N. J., July 26 1878

Time Sheet
John Berger
wk ending Aug 2. 1878

Saturday	Carbonmould Pres 3	
	Mould Press for Telephone 7	10
Monday	Carbonmould Pres 3	
	Telephone 9	12
Tuesday	Telephone 5	10
	Engine Dissm 2	
	Engine Lathe 3	
Wednesday	Engine Lathe 10	10
Thursday	Telephone 7	10
	Engine Lathe 3	
Friday	Telephone 2	
	Carbonizer 3	
	Engine Lathe	
	57	

T. A. EDISON.

Menlo Park, N. J., July 26 1878

Time Sheet
A Swanson
wk ending Aug 2 1878

Saturday Firing and Running the Engine 9 hours.
Carbon Mould 2 hours Shop work.
Monday Firing up and work on Telephone 3 hours
helping Diggers a Well 9 hours
Tuesday Firing and Running the Engine 9 hours.
Magnets 3 hours. Shop work, Pump for Well 12 hours.
Wednesday Firing and Running the Engine 6 hours
Telephone 1 Hours
Helping the Wind Digger 4 hours Telephone 4 hy
Thursday Firing and Running the Engine 10 hours
Magnets for Telephone 4 hours
Friday Shop Work Firing and Running the Engine 10 hours
Water tank 2 hours Microphone 3 hours
Filling Gasoline in the tank. Shop work.

T. A. EDISON.

Menlo Park, N. J., July 27 1878

Time Sheet
Thos Whitney
week ending July 27 78

Saturday - Laboratory work.
and Pressing carbon
Monday Laboratory work
and Pressing carbon
Tuesday Laboratory work
and pressing carbon
Wednesday - Laboratory work
Telephone
Thursday - Laboratory work
Telephone
Friday - Laboratory work -
Photographs and
Pressing Carbon

Menlo Park, N. J., Aug. 20 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrews

Week ending Aug 9th

	Office work	Lamp	Parking Lamp								
Saturday,	10										10
											10
Monday,	10										
Tuesday,	5	5									10
Wednesday,	6		7								13
Thursday,	8		5								13
Friday,	3		7								10
Total.	42	5	19								66

Menlo Park, N. J., 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending

	Telephone										
Saturday,	10										
Sunday	10										
Monday,	14										
Tuesday,	14										
Wednesday,	14										
Thursday,	14										
Friday,	14										
Total.											

Menlo Park, N. J., Aug. 2d 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm. Carman

Week ending Aug. 9th

Saturday,	To Newark all day — for self											
Monday,	Book Keeping & Training Girls Fell											
Tuesday,	do						do					
Wednesday,	do						do					
Thursday,	do						do					
Friday,	do						do					
Total.	do						do					

Menlo Park, N. J., Aug. 2d 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. P. Edison

Week ending Aug. 9th

	Phelps											
Saturday,	10											
Monday,	10											
Tuesday,	10											
Wednesday,	10											
Thursday,	10											
Friday,	10											
Total.												

Menlo Park, N. J., Aug 2d 1878

EDISON'S LABORATORY,

TIME SHEET,

For Oell. Ekstrom

Week ending Aug 9th

	Checkout Quinlan Phonograph											
Saturday,	10											10
Monday,	10											10
Tuesday,	10											10
Wednesday,	10											10
Thursday,	~~8~~											~~8~~
Friday,												
Total.												49

Menlo Park, N. J., Aug 2d 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Flammer

Week ending Aug 9th

	Hoyt & Ivins	Telephone	Binding Rack	Phonographs & Repairing Caps								
Saturday,	9											9
Monday,	5	7										12
Tuesday,	1	9										10
Wednesday,	4	4	2									10
Thursday,	9½			1/3								10
Friday,	*			4½	5½							10
Total.												61

Menlo Park, N. J., Aug 2d 1878

EDISON'S LABORATORY,

TIME SHEET,

For Mr. Rose

Week ending Aug 9th

	Telephone	Carbons	Receiver								
Saturday,	10										
Monday,	14										
Tuesday,	14										
Wednesday,	14										
Thursday,	4	10									
Friday,	4		8								
Total.											

Menlo Park, N. J., Aug 2d 1878

EDISON'S LABORATORY,

TIME SHEET,

For Mr. Griffin

Week ending Aug 9th

Saturday,											
Monday,	Attending Tool Telephones to Delmas N.Y.										
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

S. L. Griffin

Menlo Park, N. J., Aug 2d 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Hood

Week ending Aug 9th

	[illegible]											
Saturday,	10											10
Monday,	10											10
Tuesday,	10											10
Wednesday,	10											10
Thursday,	10											10
Friday,	10											10
Total.												60

Menlo Park, N. J., Aug 2d 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Ja[illegible]

Week ending Aug 9th

	[illegible]											
Saturday,	8											8
Monday,	8	10	1½									19½
Tuesday,												10
Wednesday,			2									10
Thursday,				5	4½							9½
Friday,												10
Total.	38½	2	5	11½	3							60

Menlo Park, N. J., Aug. 2d 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Kruesi

Week ending Aug 9th.

	Telephone	Automatic Repeater	Underground Wires	Gas Engine							
Saturday,	10										10
	6										6
Monday,	10	0	2								12
Tuesday,	2			10							12
Wednesday,	5		3	4							12
Thursday,	10			2							12
Friday,		3		4	5						12
Total.	43	3	5	20	5						76

Menlo Park, N. J., Aug 2d 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Kruesi

Week ending Aug 9th

	Sept
Saturday,	10
	6
Monday,	
Tuesday,	
Wednesday,	
Thursday,	
Friday,	
Total.	

Menlo Park, N. J., Aug. 2d 1878.

EDISON'S LABORATORY,

TIME SHEET,

For Thos. Logan

Week ending Aug. 9th

		Neighboring	work performed for Edison										
Saturday,	10												10
Monday,	9												9
Tuesday,	1	9											10
Wednesday,		10											10
Thursday,		10											10
Friday,		4	5	1									10
Total.	20	33	5	1									59

Menlo Park, N. J., Aug. 2d 1878

EDISON'S LABORATORY,

TIME SHEET,

For Jos. Segel

Week ending Aug. 9th

Saturday,													X
Monday,													X
Tuesday,													X
Wednesday,													X
Thursday,													X
Friday,	Week ending												5
Total.													

Menlo Park, N. J., Aug 2d 1888

EDISON'S LABORATORY,

TIME SHEET.

For Alf. Swanson

Week ending Aug 9th

	Fitting up Laboratory for Sept.	Shop work	Telephone work		Electro Sheets	Fitting up Boiler House	Fitting the Laboratory				Hours
Saturday,	9.	3.	6.								9.
Monday,	12.	2.	6.	4.							12.
Tuesday,	10.	2.	1½	3.	3½						10.
Wednesday,	10.	4.			6.						10.
Thursday,	11.	8.				3.	3.				11.
Friday,	10	2.		1.			7.				10
Total.	62	21.	13½	8.	9½	3.	7.				62.

Menlo Park, N. J., Aug 2d 1888

EDISON'S LABORATORY,

TIME SHEET.

For Theo. Whitney

Week ending Aug 9th

Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

Menlo Park, N. J., Aug. 10th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrews

Week ending Aug. 10th

		Phonograph	Looking after Gas	Office work
Saturday,	10			
Monday,	10	9		
Tuesday,			15	
Wednesday,			15	
Thursday,			18	
Friday,		4	1	
Total.	20	12	49	

Menlo Park, N. J., 187

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending

	Lighting Arc	Phonograph	W. O. P. R.
Saturday,	10		
Sunday	5		
Monday,		10	
Tuesday,		13	
Wednesday,	10	9	
Thursday,		8	5
Friday,		8	5
Total.			

Menlo Park, N. J., Aug. 10th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Aug. 16th

Saturday,	New York												
Sunday	Fishing												
Monday,	New York												
Tuesday,	New York												
Wednesday,	Newark												
Thursday,	New York												
Friday,	New York												
Total.	New York												

Menlo Park, N. J., Aug. 10th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm. Carman

Week ending Aug. 16th

Saturday,	away												
Monday,	Sick			Tracing & Book Keeping									
Tuesday,	do			do						do			
Wednesday,	do			do						do			
Thursday,	do			do						do			
Friday,	do			do						do			
Total.													

Menlo Park, N. J., Aug 9th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas P. Edison

Week ending Aug 16th

	[illegible]											
Saturday,	10											
Monday,	10											
Tuesday,	10											
Wednesday,	10											
Thursday,	10											
Friday,	10											
Total.	60											

Menlo Park, N. J., Aug 10th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Aug 16th

	Stockingmaker work	Mouthpiece for talking transmitter	Jacquards	Stocking frame	Photographs	Stocking frame				
Saturday,	4	4	1							9
Monday,	1			2	7					10
Tuesday,		1/2		9 1/2						10
Wednesday,		10			8					10
Thursday,		8		2	2					12
Friday,		3		2	2	5				10
Total.										61

Menlo Park, N. J., Aug 10th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Martin Force

Week ending Aug 10th

	Laboratory	Filing	Test board	Miscellaneous	Personal expense						
Saturday,	10										
Monday,	10										
Tuesday,		10									
Wednesday,		5		10							
Thursday,		4	2	5	3						
Friday,		5	4	5							
Total.											

Martin N Force

Menlo Park, N. J., Aug 9 1878

EDISON'S LABORATORY,

TIME SHEET,

For A L Griffin

Week ending Aug 16

Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

Attending office

Menlo Park, N. J., Aug. 10th 1878

EDISON'S LABORATORY,

TIME SHEET,

For John Flood

Week ending Aug. 16th

	H. Lindsay	Edwin Cousins	Frank Bourgeois								
Saturday,	10									10	
Sunday		11								11	
Monday,	10									10	
Tuesday,	10									10	
Wednesday,			10							10	
Thursday,	1		9							10	
Friday,	5			5						10	
Total.	36	11	19	5						71	

Menlo Park, N. J., Aug. 10th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Jackson

Week ending Aug. 16th

	Geo. Jackson	64 Degree	Quackenbush	Bergmann	Wilkins	Phonograph	Tools & Parts	Wiring			
Saturday,	10										10
Monday,	3½	4									7½
Tuesday,			8½	1							9½
Wednesday,				7	3						10
Thursday,					10						10
Friday,						2½	6½	1			10
Total.	13½	4	8½	8	13	2½	6½	1			57

Menlo Park, N. J., Aug 7th 18

EDISON'S LABORATORY,

TIME SHEET,

For J. Kruse

Week ending Aug. 16th

	[illegible]	[illegible]	[illegible]	[illegible]	Brooklyn Hustler							
Saturday,	12											
Monday,				16	4							
Tuesday,	3	5	3	1								
Wednesday,	4	3	1	4								
Thursday,	4		2	3	2							
Friday,	4	4		4								
Total.												

Menlo Park, N. J., Aug 7th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos. Logan

Week ending Aug. 16th

	[illegible]	[illegible]	[illegible]	[illegible]							
Saturday,	2	6									8
Monday,		9									9
Tuesday,		2	5								10
Wednesday,											
Thursday,		5	6								11
Friday,		6		4							10
Total.	2	28	14	4							48

Menlo Park, N. J., Aug. 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Sigel

Week ending Aug 16th

	Designing Apparatus	Manufacturing Apparatus	Office work									
Saturday,	5	5										10
Monday,	10											10
Tuesday,	10											10
Wednesday,	6	5										10
Thursday,		10	5									10
Friday,			10									10
Total.	30	15	15									60

Menlo Park, N. J., Aug 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Olf. Swanson

Week ending Aug 16th

	Training and Engineering	Machine shop	Shop work	Repairing Engine	Field							
Saturday,	9.	3.	6.									9.
Sunday				11.								11.
Monday,	10.		7.		3.							10.
Tuesday,	10	2.	8.									10.
Wednesday,	10	9.	1.									10.
Thursday,	12	8.	4.									12.
Friday,	10	3.	7.									10
Total.	61	25	33.	11	3.							61.

Menlo Park, N. J., Aug. 16th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrews

Week ending Aug 23d

	Machine Work	Hand Work	Experimental Work	Drawing							
Saturday,	5	3	2								
Monday,			10	9							
Tuesday,			10								
Wednesday,			10								
Thursday,		4	8								
Friday,			10								
Total.	5	4	48	9							63

Menlo Park, N. J., Aug 16th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending Aug 23d

	X & 1 P	Telephone	Microphone	Telephone							
Saturday,			10								
Monday,	15										
Tuesday,	5	10									
Wednesday,				10							
Thursday,	5	10									
Friday,		15									
Total.											

1

Menlo Park, N. J., Aug. 16th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Aug. 23d

	Dec 23		Tuesday		Thursday						
Saturday,			12								
Monday,			6		6						
Tuesday,			6		6						
Wednesday,			6		6						
Thursday,		5	7								
Friday,		5	8								
Total.											

1

Menlo Park, N. J., Aug. 16th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm. Carman

Week ending Aug 23d

Saturday,	Tomorrow Lift Telephone										
Monday,	Tracing & Speaking Tel								x	Book Keep	
Tuesday,		1.00					1.00			1.00	
Wednesday,		1.00					1.00			1.00	
Thursday,		1.00					1.00			1.00	
Friday,		1.00						and	Scrap	Work	
Total.											

Menlo Park, N. J., Aug. 16th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Chas P. Edison

Week ending Aug. 23d

	Vistor Left										
Saturday,	10										
Monday,	10										
Tuesday,	10										
Wednesday,	10										
Thursday,	10										
Friday,	10										
Total.	60										

Menlo Park, N. J., Aug. 16th 18

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Flammer

Week ending Aug 23d

	Mackey	Peters	Morgenstern	working at mills	for Jewell	Cutting out Jewelry	Cutting out Jewelry for stock	Polishing Jewelry	Thorneycroft	Jacobitti	Filing extra	working on Tools
Saturday,	6	8										9
Monday,	1		6	3								10
Tuesday,		5	4			1						10
Wednesday,		8				1	2	2				10
Thursday,		2						2	6			10
Friday,								3	4		3	10
Total.												59

Menlo Park, N. J., Aug 16th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Martin Force

Week ending Aug 23d

	Telephones	Twig	Phonograph	Phonograph	Telephone						
Saturday,		5	10	2							
Monday,				10	work in Midwork						
Tuesday,			5	9							
Wednesday,			6	5							
Thursday,	9		4	5							
Friday,	16										
Total											

Menlo Park, N. J., Aug 16 1878

EDISON'S LABORATORY,

TIME SHEET,

For S. L. Griffin

Week ending Aug 23d

Saturday,	Attending										
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

S. L. Griffin

1

Menlo Park, N. J., Aug. 16th 1878

EDISON'S LABORATORY,

TIME SHEET,

For John Ford

Week ending Aug. 23d

	Filing Tools	Filing Stop & Jewels	Drs. Bennett	Tool Room	Miscellaneous							
Saturday,	3	7									10	
Monday,		10									10	
Tuesday,			10								10	
Wednesday,												
Thursday,			5	5							10	
Friday,			10								10	
Total.	3	17	25	5							50	

1

Menlo Park, N. J., Aug. 16th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Jackson

Week ending Aug. 23d

	Tool Room Repairs	Wm. Wallace										
Saturday,	8											8
Monday,	9											9
Tuesday,	9½											9½
Wednesday,	10											10
Thursday,	10											10
Friday,	8	2										10
Total.	54½	2										56½

Menlo Park, N. J., Aug. 16th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Krusi

Week ending Aug 23d

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				
Saturday,												
Monday,												
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.												

Menlo Park, N. J., Aug. 16th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos Logan

Week ending Aug. 23d

	week ending	[illegible]	[illegible]	[illegible]							
Saturday,	9			1							10
Monday,		3									3
Tuesday,		3	7								10
Wednesday,				10							10
Thursday,		1	3	6							10
Friday,				10							10
Total.	1	13	10	27							59

1

Menlo Park, N. J., Aug. 16th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Sigel

Week ending Aug. 23d

	Microphone											
Saturday,	10											
Monday,	6											
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.												

1

Menlo Park, N. J., Aug. 16th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Alf. Swanson

Week ending Aug. 23d

	Drawing and tracing (Telegraph)	Telegraph Working & Testing	Shop work	Gas	Chemistry				
Saturday,	9.		3.	6.					9.
Monday,	10.	8.	2.						10.
Tuesday,	10.	7.	3.						10.
Wednesday,	10.	4. 3.	1.	2.					10.
Thursday,	10	1. 2.	3.		4.				10.
Friday,	10		10						10
Total.	59.	5. 20.	22.	8.	4.			Hours	59.

Menlo Park, N. J., Aug. 16th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Theo Whitney

Week ending Aug. 23d

Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,	Laboratory work										
Friday,	Laboratory work cleaning showcases										
Total.											

Menlo Park, N. J., Aug 24th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrus

Week ending Aug 30th

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
Saturday,	10										10
Monday,	10										10
Tuesday,	4	4	2								10
Wednesday,			4	6	3						13
Thursday,	2				6	9	4				13
Friday,		6						4			10
Total.	26	10	6	6	9	3	4	4			66

Menlo Park, N. J., Aug 30th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending Aug 30th

	Magnetophone	Telephone	Voltometer	Phonograph	Carbon Lamp						
Saturday,		10									
Sunday	10										
Monday,	12										
Tuesday,	12										
Wednesday,		10									
Thursday,				5	5						
Friday,			5	4							
Total.											

Menlo Park, N. J., Aug 24th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Aug 30th

	Electrical										
Saturday,	8	1									
Monday,	4		6								
Tuesday,	4		6								
Wednesday,	1		4								
Thursday,			3								
Friday,	4		3								
Total.											

Menlo Park, N. J., Aug. 24 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm. Carman

Week ending Aug 30th

Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

Tracing Speaking Telephones and Book Keeping

Wm Carman

Menlo Park, N. J., Aug. 24th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. P. Edison

Week ending Aug. 30th

	Chas. P. Edison							
Saturday,	10							
Monday,	10							
Tuesday,	10							
Wednesday,	10							
Thursday,	10							
Friday,	10							
Total.	60							

Menlo Park, N. J., Aug. 24th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Aug. 30th

	Chas. Flammer	T. Allison	Sarah Jane	Samuel Ward (Concert Villa)	Marshall	Machine Engineers					
Saturday,	1	1	7								9
Monday,		3	5	1							9
Tuesday,				10							10
Wednesday,		1/2		6 1/2	3						10
Thursday,		1 1/2			8 1/2						10
Friday,		1			7	2					10
Total.											68

Menlo Park, N. J., Aug. 24 1878

EDISON'S LABORATORY,

TIME SHEET.

For Martin Force

Week ending Aug 30th

	[illegible]	[illegible]	Tinfoil Sector	Mech Construction						
Saturday,	10									
Sunday,		10								
Monday,		10								
Tuesday,			10							
Wednesday,			10							
Thursday,				10						
Friday,	10									
Total.										

Menlo Park, N. J., Aug 23 1878

EDISON'S LABORATORY,

TIME SHEET.

For S L Griffin

Week ending Aug 30

Saturday,	Attending Office									
Monday,										
Tuesday,										
Wednesday,										
Thursday,										
Friday,										
Total.										

S. L. Griffin

Menlo Park, N. J., Aug. 24 1878

EDISON'S LABORATORY,

TIME SHEET,

For John Wood

Week ending Aug 30th

	[illegible]	Wm. Brown	[illegible]	Rudolph Wurzepel	[illegible]	Chas. Sigismund	Louis Edmunds	Wm. Benson				
Saturday,	10										10	
Monday,	2	3	3	2							10	
Tuesday,				8	2						10	
Wednesday,					5	5					10	
Thursday,						10					10	
Friday,						5	2½	2½			10	
Total.	12	3	3	10	7	20	2½	2½	–		60	

Menlo Park, N. J., Aug. 24 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Jackson

Week ending Aug 30th

	Wm. Wolff Jr.	Jos. Adams	Rudolph Wurzepel	Chas. Sigismund								
Saturday,	10											10
Monday,	10											10
Tuesday,	4	6										10
Wednesday,		8	2									10
Thursday,		8		2								10
Friday,		7½		2½								9½
Total.	14	39½	2	4								59½

Menlo Park, N. J., Aug 23d 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Krusi

Week ending Aug 30th

Saturday,	10									
	4	4								
Monday,	2				5	3				
Tuesday,			3			4			3	
Wednesday,				4			1	6		
Thursday,						8		2		
Friday,			3			3		3		2
Total.										

Menlo Park, N. J., Aug 23d 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos. Logan

Week ending Aug 30th.

Saturday,	2	5								
Monday,			1		9					10
Tuesday,	5		1	3	2					7
Wednesday,			7							
Thursday,										10
Friday,			10							
Total.	7	8	14	3	11					27

Menlo Park, N. J., Aug. 24th 1878.

EDISON'S LABORATORY,

TIME SHEET.

For Thos Logan

Week ending Aug 30th

	Gen. Work	Electric Light	Lamp & Meters	Gen'l Assist.	Gen'l work	Phonograph	Telegraph Tests	Lab. Work					
Saturday,	2	5	3										10
Monday,		4		5									9
Tuesday,				4	3								10
Wednesday,	3			4									7
Thursday,													
Friday,							10						10
Total.													46

Menlo Park, N. J., Aug. 23d 1878

EDISON'S LABORATORY,

TIME SHEET,

For N. Kuffner

Week ending Aug. 30th

	General chemical work and Telephones										
Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,	10										
Total.											

Menlo Park, N. J., Aug. 23rd 1878

EDISON'S LABORATORY,

TIME SHEET,

For J Sigel

Week ending Aug 30th

	[illegible]	[illegible]	[illegible]	[illegible]							
Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,		7		3							
Friday,			10								
Total.	10	7	10	3							

Menlo Park, N. J., Aug. 24th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Olf. Swanson

Week ending Aug. 30th

	Drawing and Engraving	Shop work	Pond Clearing	Well	Experimental work on Electricity	Irrigation	Photography				
Saturday,	9.	9.									
Monday,	10.	4.	4.	2.							
Tuesday,	10.	2.	3.		1.	4.					
Wednesday,	10.	5.	2.			3.					
Thursday,	10.	7.		3.							
Friday,	10.	4.	2.				4.				
Total.	59.	31.	11.	5.	1.	7.	4.				

Menlo Park, N. J., Aug. 24th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Theo. Whitney

Week ending Aug 30 th

Saturday,	Laboratory work										
Monday,	Laboratory work Electro Point										
Tuesday,	Laboratory work Electro Point (Filling Lockage & Lock)										
Wednesday,	Laboratory work Pressing Carbon a (Filling Lockage & Lock)										
Thursday,	Laboratory work and Electro Point										
Friday,	Laboratory work and Pressing Carbon										
Total.	—	—	—	—	—	—	—	—	—	—	—

Theo Whitney

Menlo Park, N. J., Aug 31st 1888

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrus

Week ending Sept. 6th

	Machine Shop	Carpenter Shop	Machine Shop	Lab	Laboratory						
Saturday,	4	6									
Monday,		10									
Tuesday,		7	3								
Wednesday,		7	2½	4							
Thursday,		5			5						
Friday,		8			8						
Total.	4	43	5½	4	13						60

Menlo Park, N. J., Aug 31st 1888

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Barman

Week ending Sept. 6th

Saturday,	New York										
Monday,	New York										
Tuesday,	New York										
Wednesday,	New York										
Thursday,	New York										
Friday,	New York										
Total.	New York										

Edap

Menlo Park, N. J., Aug 31st 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm Carman

Week ending Sept. 6th

Saturday,	Tracing	Telephone									Book. K.
Monday,	Tracing	Telephone									Book. K.
Tuesday,	Tracing	Telephone									Book Keep
Wednesday,	Tracing	Telepon									Book K.
Thursday,	Tracing	Telepon									
Friday,	do		do								
Total.											

Menlo Park, N. J., Aug 31st 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas R. Edison

Week ending Sept. 6th

	Phot. Tests	Bill to Mr. Ketchum	Book Keep	Lab. Work							
Saturday,	10										
Monday,		12									
Tuesday,		12									
Wednesday,		10									
Thursday,			10								
Friday,				12							
Total.	10	34	10	12							

Menlo Park, N. J., Aug. 31st 1888

EDISON'S LABORATORY,

TIME SHEET,

For Chas P. Edison

Week ending Sept 8th

Saturday,	10											
Monday,	[illegible]											
Tuesday,	[illegible]											
Wednesday,	[illegible]											
Thursday,	[illegible]											
Friday,	[illegible]											
Total.	50											

Menlo Park, N. J., Aug 31st 1888

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Sept 8th

	Sorting Platinum	Learn to E.	Experimental Work Thursday	Washing Bottles for Mr. Hamilton	Making Grand Coil for Chas.	Cleaning Lab.	Lab. Work Thursday	Washing Bottles for Mr. Hamilton	Cleaning Lab. Friday		
Saturday,	1½	3	4½								9
Monday,				2	8						10
Tuesday,					8		2				10
Wednesday,					6	2	2				10
Thursday,	1½				8			1½			10
Friday,				6½				1½	3½		10
Total.											59

Menlo Park, N. J., Aug. 31st 1878

EDISON'S LABORATORY,

TIME SHEET,

For Mr. Force

Week ending Sept. 6th

Saturday,											
Sunday,											
Monday,	8	8									
Tuesday,	2	10									
Wednesday,	4	8									
Thursday,		10									
Friday,		5									
Total.											

Menlo Park, N. J., Aug 30th 1878

EDISON'S LABORATORY,

TIME SHEET,

For S. L. Griffin

Week ending Sept 6th

Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

Attending Office

S. L. Griffin

Menlo Park, N. J., Aug 31st 1888

EDISON'S LABORATORY,

TIME SHEET,

For John Hood

Week ending Sept 8th

	Experiments Potentiometer	Experiments Carbon Rods	Experiments Carbon Rods	Experiments Carbon Rods							
Saturday,	8	2									10
Sunday	3½										3½
Monday,			1	10							11
Tuesday,	1			9							10
Wednesday,	3			7							10
Thursday,	10										10
Friday,	10										10
Total.	35½	2	1	26							64½

Menlo Park, N. J., Aug. 31st 1888

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Jackson

Week ending Sept 8th

	Dynamo Electric Light										
Saturday,	—										
Monday,	9										9
Tuesday,	10										10
Wednesday,	10										10
Thursday,	10										10
Friday,	9										9
Total.											48

Menlo Park, N. J., Aug 30th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Knight

Week ending Sept 6th

	Mr. Sinclair										
Saturday,											
Monday,											
Tuesday,											
Wednesday,	8										
Thursday,	15										
Friday,	10										
Total.											

Menlo Park, N. J., Aug 31st 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos Logan

Week ending Sept. 6th

	Carbon Mercadot Cover	Magnetic Attic Dynamo work									
Saturday,	10										10
Monday,	9	1									10
Tuesday,	10										10
Wednesday,											30
Thursday,											
Friday,											
Total.											

Menlo Park, N. J., Aug. 31st 1888

EDISON'S LABORATORY,

TIME SHEET,

For N. Ruffner

Week ending Sept. 6th

	General chemical work and Tellurium									
Saturday,	9									
Monday,	10	General work, Tellurium								
Tuesday,	5	do	do	do						
Wednesday,	10	do	do	do						
Thursday,	10	do	do	do						
Friday,	10	do	do	do	Hydro-fluo-silicic acid					
Total.										

Menlo Park, N. J., Aug 31st 1888.

EDISON'S LABORATORY,

TIME SHEET,

For A. Swanson

Week ending Sept. 6th

	Drawing and Engraving	Chem. work	Elect. Chemistry	Kitchen work	Blue Blowing work	Stock Drawing and Blueing	Engraving & Photo work	Help in grinding		
Saturday,	9.	2.	5.	2.					9.	
		~~2.~~	~~3.~~	~~4.~~						
Monday,	10.	3.	3.	4.					11.	
Tuesday,	10.	4.	4.		2.				10	
Wednesday,	10.	4.		4.		2.			10	
Thursday,	10	1.		7.			2.		10	
Friday,	10	3.		2				5.	10	
Total.	60.	17.	12.	19.	2.	2.	2.	5	60	

Alex Swanson

Menlo Park, N. J., Aug. 31st 1888

EDISON'S LABORATORY,

TIME SHEET.

For Theo. F. Whitney

Week ending Sept 6th

Saturday,	Laboratory work pressing carbon and polishing screws
Monday,	Laboratory work and pressing carbon
Tuesday,	Laboratory work Lamp black and pressing carbon
Wednesday,	Laboratory work and lamp black
Thursday,	Laboratory work and lamp black
Friday,	Laboratory work and Lamp Black
Total.	

Menlo Park, N. J., Sept 6th 1888

EDISON'S LABORATORY,

TIME SHEET,

For A P Andrus

Week ending Sept 13th

	Day	Extra Work Day									
Saturday,	7	6									
Sunday		4									
Monday,	6	4									
Tuesday,	10										
Wednesday,	9		1								
Thursday,	8		4								
Friday,	7		4								
Total.	47	14	6								

Menlo Park, N. J., Sept 6th 18 88

EDISON'S LABORATORY,

TIME SHEET,

For Geo Bachelder

Week ending Sept 13th

	Regular Work Day	Extra Work Day									
Saturday,		10									
	10										
Monday,	10										
Tuesday,											
Wednesday,											
Thursday,											
Friday,		15									
Total.											

Menlo Park, N. J., Sept 6th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Sept 15th

	Experiments	Experiments	Experiments	Experiments	Experiments	Experiments					
Saturday,			7	1							8
Sunday,					12						12
Monday,	4		7		2						13
Tuesday,		4		8							12
Wednesday,			5	7							12
Thursday,		8		7							15
Friday,	4			4	4						17
Total.											

Menlo Park, N. J., Sept 6th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Wm Carman

Week ending Sept 15th

Saturday,	Drawing Telephone & Book Sorting										
Monday,	Drawing Telephone										
Tuesday,	Drawing Telephone										
Wednesday,	Drawing Telephone										
Thursday,	working with Electric Currents and										
Friday,	Drawing - (Instruments)										
Total.											

Menlo Park, N. J., Sept 5th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. P. Edison

Week ending Sept 13th

	Telephone Day											
Saturday,	10											
Sunday,	14											
Monday,	10											
Tuesday,	10											
Wednesday,	14											
Thursday,	14											
Friday,	10											
Total.	78											

Menlo Park, N. J., Sept 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Sept 13th

	Rosewater Lamp work	Dynamos & Motors	Phonograph work	Electric Lamp	Bundle Cards	Automatic Telegraphs	Electric Light Machines	Telegraph Lines		
Saturday,	8	1								9
Monday,	2	3		5						9
Tuesday,	2		1	7						10
Wednesday,	4		1	2	1	2				10
Thursday,				8	3		2			13
Friday,			3				2	8		13
Total.	15	4	5	22	4	2	4	8		64

Menlo Park, N. J., Sept 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. Force

Week ending Sept 13th

	Telly		Protection	Phonetic							
Saturday,	5		5								
Sunday	11										
Monday,	10.			12							
Tuesday,				5							
Wednesday,	3										
Thursday,											
Friday,											
Total.											

Menlo Park, N. J., Sept 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For S. L. Griffin

Week ending Sept 13th

Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

Attending Office

S. L. Griffin

Menlo Park, N. J., Sept 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Flood

Week ending Sept 13th

	Batteries	Experimenting on Electric Light	Machine Test	Incl. Pump						
Saturday,	10								10	
Monday,	10								10	
Tuesday,	4	6							10	
Wednesday,		6	9						15	
Thursday,			8	2	3				13	
Friday,			13						13	
Total.	24	12	30	2	3				71	

Menlo Park, N. J., Sept 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo Jackson

Week ending Sept 13th

	Place Phonograph	Experimenting on Electric Light								
Saturday,	10									10
Monday,	10									10
Tuesday,		10								10
Wednesday,		10								10
Thursday,		13								13
Friday,		6	7							13
Total.	20	39	7							66

Menlo Park, N. J., Sept. 6th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Knight

Week ending Sept. 13th

	Alex. Sadlex	[illegible]	[illegible]	W. Francis							
Saturday,	8										8
Monday,	14										14
Tuesday,	14										14
Wednesday,	14										14
Thursday,	16	5	4								15
Friday,				13							13
Total.	56	5	4	13							

Menlo Park, N. J., Sept. 6th 1888

EDISON'S LABORATORY,

TIME SHEET,

For J. Krueger

Week ending Sept. 13th

	Peter Burgess	Wm. Wanzer	Robert Hammond Jr.	Thomas Coleman	Christopher	Michael Lamp	Samuel Tomlinson	Telephone			
Saturday,	10										
Monday,		6			6			4			
Tuesday,	4	4		2							
Wednesday,	5	3	4								
Thursday,		2	2		4	3					
Friday,	6	1					3				
Total.											

Menlo Park, N. J., Sept 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Kruesi

Week ending Sept 13th.

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]						
Saturday,	4	3	1	2								
			4									
Monday,		5	5									
Tuesday,		4	7									
Wednesday,					6	6						
Thursday,			1		18	2						
Friday,			2		10	1						
Total.	4	12	20	2	34	9						13

Menlo Park, N. J., Sept 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos Logan

Week ending Sept 13th

	[illegible]	[illegible] laboratory [illegible]	[illegible] electric light									
Saturday,												
Monday,												
Tuesday,												
Wednesday,	5	9										9
Thursday,	6	5	6									15
Friday,			13									13
Total.	2	14	19									35

Menlo Park, N. J., Sept. 6th 1878.

EDISON'S LABORATORY,

TIME SHEET,

For 18 Huffner

Week ending Sept 13th

Saturday,	9	General chemical work										
Monday,	10	do	do	do								
Tuesday,	10	do	do	do								
Wednesday,	10	do	do	do								
Thursday,	10	do	do	do								
Friday,	10	do	do	do								
Total.												

Saturday, Tellurium & Hydrofluoric Acids
Tellurium
Monday, do
Tuesday, Fluoride of Silicium & Hydrofluoric Acid
Wednesday, Silicium
Thursday, Tellurium, Silicium
Friday,

Menlo Park, N. J., Sept. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Swanson

Week ending Sept 13th

	Pressing and Engineering	Shop work	Wiring for Friends	Painting Bars for L.	Rod Making	Turning of Rods for	Experimental Work	Making Chemicals	Assistant to	Total
Saturday,	9.	4.	5.							9.
										~~100~~
Monday,	10.	5.		5.						10.
Tuesday,	10.	3.	1.		3½	2½				10.
Wednesday,	13.	4½			1½		5.	2.		13.
Thursday,	13.	4	2.						5.	2.	13.
Friday,	13.	8.	0				5.				13.
Total.	68.	32½	8.	5.	5.	2½	10.	2	5.	2.	68.

Menlo Park, N. J., Sept. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Theo. Whitney

Week ending Sept 13th

Saturday,	Laboratory work and pressing carbon
Monday,	Laboratory work and pressing carbon
Tuesday,	Laboratory work Electro Point ~~Lamp Pho~~
Wednesday,	Laboratory work and making carbon
Thursday,	Laboratory work and making carbon
Friday,	Laboratory work and making carbon
Total.	Electro Point Absorber for Battery.

Menlo Park, N. J., Sept 13th 18 28

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrews

Week ending Sept 20th

	Tin foil Phono	Lab work								
Saturday,	10									
Monday,	9	1								
Tuesday,	10									
Wednesday,	10									
Thursday,	5	5								
Friday,	10									
Total.	54	6								60

Menlo Park, N. J., Sept 13th 18 28.

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending Sept 20th

	Motor testing Chas B. N.P.	Phonograph	Carbon Resistance	Electric Light							
Saturday,			5	5							
Sunday				7							
Monday,		5	5	5							
Tuesday,				14							
Wednesday,	5			9							
Thursday,	10										
Friday,	10										
Total.											

Menlo Park, N. J., Sept 13th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Sept 20th

	Carbon	Carbon	Telephone	Quadruplex	Quadruplex	Sundries		Telephone			
Saturday,	5			4	2						11
Sunday,	2	6									8
Monday,			6	3	10	4					23
Tuesday,	1		6			6					13
Wednesday,						1		5			14
Thursday,						2	14				16
Friday,			2	2			6				10
Total.											95

Menlo Park, N. J., Sept 13th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm. Carman

Week ending Sept 20th

Saturday,	Posting Books and scraps										
Monday,	Posting Books & Speaking Tel. Factory										
Tuesday,	do										
Wednesday,	do										
Thursday,	New York (Laboratory)										
Friday,	Speaking Telephone Factory										
Total.											5

W C

Menlo Park, N. J., Sept 13th 1880

EDISON'S LABORATORY,

TIME SHEET,

For Chas P. Edison

Week ending Sept 20th 1880

	Wing Duplex	For Real Tel. Receiver								
Saturday,	11									
Sunday	17									
Monday,	12									
Tuesday,		10								
Wednesday,		10								
Thursday,		10								
Friday,		10								
Total.	40	40								

Menlo Park, N. J., Sept 13th 1880

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Sept 20th

	Wheatstone Bridge for Tests	making strong solution	helping clean plates	putting up batteries	electric light experiments	attending Dynamo	Battery cutting	made for Duplex	Planning Carbon	putting up	
Saturday,	6½	2	1½								9.
Monday,				2½	7½	5					10
Tuesday,					13	13					13
Wednesday,					8	13	3	1			13
Thursday,			1		4	11	2				11
Friday,					4	11			2	1½	11
Total.											67.

Menlo Park, N. J., Sept 13th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. Force

Week ending Sept 20th

	Laboratory	Experimental	Office	Electric Light	Electric Light	Pharmacy					
Saturday,	5	6									
Sunday			6	2							
Monday,	5	5			11						
Tuesday,		8									
Wednesday,		6				4					
Thursday,		10									
Friday,		10									
Total.											

Menlo Park, N. J., Sept 13th 1878

EDISON'S LABORATORY,

TIME SHEET,

For S. L. Griffin

Week ending Sept 20th

Saturday,											
Monday,					Attending Office						
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

S. L. Griffin

Menlo Park, N. J., Sept 13th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Wood

Week ending Sept 20th

	J. Wood	Chas. Mott	Chas. Kruesi									
Saturday,	10										10	
Monday,		20									20	
Tuesday,		8									8	
Wednesday,		12									12	
Thursday,	2	6	2								10	
Friday,		10									10	
Total.	12	56	2								70	

Menlo Park, N. J., Sept 13th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Jackson

Week ending Sept 20th

	Wm. Tierney	Geo. Jackson	Chas. Mott	Geo. Carman	Geo. Jackson	Geo. Tierney	Chas. Mott	Chas. Kruesi	Geo. Jackson	Geo. Tierney				
Saturday,	10													10
Monday,		2	7	1										10
Tuesday,				5	8									13
Wednesday,					2	10								12
Thursday,						9	1							10
Friday,							10							10
Total.														65

Menlo Park, N. J., Sept 13th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. K. Knight

Week ending Sept 20th

	Wollenhaupt, Pelly	John Kappler for Sept	Morris Valentine	Elect Lt. J.							
Saturday,	10										10
Monday,	12			2							14
Tuesday,	10		2								14
Wednesday,			13								13
Thursday,			10								10
Friday,			10								10
Total.											

Menlo Park, N. J., Sept 13th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J Krusi

Week ending Sept 20th

	Martin Thurber	Robert Sept	Fitzgerald	Bernard Sept	Pettenuiller						
Saturday,	5	5									
		6									
Monday,		14									
Tuesday,		6	4	4							
Wednesday,		8		4							
Thursday,	4	8	2								
Friday,		8	2								
Total.	5	44	10	4	4						

Menlo Park, N. J., Sept 13th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos Logan

Week ending Sept 20th

	Electric Light	Telephone	Carbonized Cocoa	Electro Light carbon									
Saturday,	10												10
Monday,	3	6											9
Tuesday,	4	9											13
Wednesday,	2		8										10
Thursday,	1		9										10
Friday,	7	3											10
Total.	27	18											62

Menlo Park, N. J., Sept 13th 1878

EDISON'S LABORATORY,

TIME SHEET,

For N. Ruffner

Week ending Sept 20th

	Chemicals Sam'l Scott	Iodide of Copper do do	Iodide of Copper do do								
Saturday,	12	6	6								
Monday,	10	Iodide of Copper & General Chem.									
Tuesday,	10	Phosphorus and general Ch.									
Wednesday,	10	do			do	do	do	do			
Thursday,	10	do			do	do	do	do			
Friday,	10	do			do	do	do	do			
Total.											

Menlo Park, N. J., Sept 13th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Alf. Swanson

Week ending Sept 20th

	Shoing and Repairing	Shop work	Electric Light									
Saturday,	9			Sick								
		5	4									
Monday,	5	2	3									
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.	14	7	7									

Menlo Park, N. J., Sept. 13th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Theo. Whitney

Week ending Sept. 20th

Saturday,	Laboratory work and pressing carton											
Monday,	Laboratory work Lamp Black and pressing carton											
Tuesday,	Laboratory work Lamp Black and pressing carton											
Wednesday,	Laboratory work Lamp Black and pressing carton											
Thursday,	Laboratory work Lamp Black and pressing carton											
Friday,	Laboratory work Lamp Black and pressing carton											
Total.												

Menlo Park, N. J., Sept 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrews

Week ending Sept 27th

	Labor	Incid'l	Table Hire									
Saturday,	4	7										
Sunday	2											
Monday,	4	6										
Tuesday,	4	6										
Wednesday,	8	10	3									
Thursday,		9	3									
Friday,	8		2									
Total.	7	32	8									67

Menlo Park, N. J., Sept 20 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending Sept 27th

	Chem'l Supply	Manufg'd										
Saturday,	10											
Sunday		10										
Monday,	20											
Tuesday,	12											
Wednesday,	11	4										
Thursday,	15											
Friday,	15											
Total.												

Menlo Park, N. J., Sept 28th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Sept 27th

				Repairs							
Saturday,			1								
Sunday,		2	6								
Monday,	6		6								
Tuesday,	6	4	5								
Wednesday,	6	2	4								
Thursday,	7	4		2							
Friday,	6	5	8	2							
Total.											

Menlo Park, N. J., Sept 28th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Wm. Carman

Week ending Sept 27th

Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

Half Electric Park Keeping Aqua and Half Sunday

Menlo Park, N. J., Sept 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. P. Edison

Week ending Sept 27th

	New Tel Receiver									
Saturday,	10									
Sunday	10									
Monday,	10									
Tuesday,	10									
Wednesday,	10									
Thursday,	10									
Friday,	10									
Total.	70									

Menlo Park, N. J., Sept 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Sept 27th

	Blr work	Laboring p. hours	Fitting p. hours	Model p. hours	Putting Tables	Jobbing	Electric Light	Dynamo work		
Saturday,	3	12	7							10
Sunday	8	8								8
Monday,	8	13		5						13
Tuesday,		3		7						10
Wednesday,					9	4				13
Thursday,							10			10
Friday,			3				9½	1½		13
Total.	19	34	10	12	1	4	19½	1½		77

Menlo Park, N. J., Sept 20th 1878

EDISON'S LABORATORY,

TIME SHEET.

For Martin Force

Week ending Sept 27th

	Continuous	Continuous	Sept 1	Sept 2						
Saturday,	10									
Sunday,	7	4								
Monday,	8	6	21							
Tuesday,	5	0	30							
Wednesday,	11									
Thursday,	8		2							
Friday,	12	6								
Total.	57	20	9							

Menlo Park, N. J., Sept 20th 1878

EDISON'S LABORATORY,

TIME SHEET.

For S. L. Griffin

Week ending Sept 21

Saturday,	Attending Office									
Monday,										
Tuesday,										
Wednesday,										
Thursday,										
Friday,										
Total.										

S. L. Griffin

Menlo Park, N. J., Sept 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For John Wood

Week ending Sept 28th

		Telephone	Electric light								
Saturday,			10							10	
Sunday,			9							9	
Monday,		9	5							14	
Tuesday,			13							13	
Wednesday,			13							13	
Thursday,			10							10	
Friday,			10							10	
Total.		9	70							79	

Menlo Park, N. J., Sept 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Jackson

Week ending Sept 28th

		Odbery Trade Mark	Jno Boehner Elect. Apparatus								
Saturday,		5	5								10
Sunday,			10								10
Monday,			16								16
Tuesday,			13								13
Wednesday,			14								14
Thursday,		2	8								10
Friday,		10									10
Total.		17	66								83

Menlo Park, N. J., Sept 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. H. Knight

Week ending Sept 27th

	Reflecting Telescope	Reflecting Microscope	Experimenting on Electric Light
Saturday,	10		
Sunday		5	
Monday,			12
Tuesday,			13
Wednesday,			10
Thursday,			
Friday,			Sick
Total.			

Menlo Park, N. J., Sept 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Krusi

Week ending Sept 27

	Electric Light	Telephone
Saturday,	10	
	10	
Monday,	10	6
Tuesday,	13	
Wednesday,	10	4
Thursday,	2	5
Friday,	10	
Total.	[illegible]	[illegible]

Menlo Park, N. J., Sept 20th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Thos Logan

Week ending Sept 27th

	Electric Light	Electric Lamp Repairing	Electric Repairing										
Saturday,	10												10
Sunday	10												10
Monday,		13											13
Tuesday,	5	8											13
Wednesday,			7										7
Thursday,	6		4										10
Friday,	13												13
Total.	44	21	11										86

Menlo Park, N. J., Sept 20th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Alfred Swanson

Week ending Sept 27th

	Cleaning & Repairing Shop	Shop Work	Binding Test	Carbon Manufacture	Electric Express								
Saturday,													
Monday,													
Tuesday,	7												
Wednesday,	13				1½								
Thursday,	13	6	7										
Friday,	13	3		10									
Total.													

Menlo Park, N. J., Sept 20th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Thos Whitney

Week ending Sept 27th

Saturday,	Laboratory work pressing carbon and lamp black												
Monday,	Laboratory work carbon & lamp black												
Tuesday,	Laboratory work lamp black												
Wednesday,	Laboratory work lamp black												
Thursday,													
Friday,													
Total.													

Menlo Park, N. J., Sept 30th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Arthur Andrews

Week ending Oct. 4th

	Barney Supplied										
Saturday,											
Monday,	10										
Tuesday,	10										
Wednesday,	10										
Thursday,	10										
Friday,	10										
Total.											

Menlo Park, N. J., Sept 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrews

Week ending Oct. 4th

	E. Barnes	Charles Dean	Edward Hoy	Barney	J. E. Clifford						
Saturday,	6	4									
Monday,	4	6									
Tuesday,	~~[illegible]~~	7	1	1	4						
Wednesday,		6½			9½						
Thursday,	4		3								
Friday,	~~[illegible]~~	10									
Total.	14	33½	4	1	14½						63

Menlo Park, N. J., ... 18

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending Oct 5th 1878

	Chas Batchelor											
Saturday,	10											
Sunday	12											
Monday,	22											
Tuesday,	16											
Wednesday,	10											
Thursday,	15											
Friday,	24											
Total.												

Menlo Park, N. J., Sept 25th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo Barman

Week ending Oct. 4th

	Henry Cook	Sadgrove	Baumann	Carman	Edison							
Saturday,	6		2									
Sunday				4								
Monday,	6	4	2	2	8							
Tuesday,	7	1		2								
Wednesday,	6		2									
Thursday,	6	2	2		10							
Friday,	6											
Total.												

Menlo Park, N. J., Sept. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm Carman

Week ending Oct 4th

Saturday,			Drawing								
Monday,			do			do				"	
Tuesday,			do			do					
Wednesday,			do			do					
Thursday,			do			do					
Friday,			do			do					
Total.											

E. Eng & ½ Bookkeeping

and Books

Wm Carman

Menlo Park, N. J., Sept. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas P. Edison

Week ending Oct 4th

	Hrs Received										
Saturday,	10										
Sunday,	12										
Monday,	14										
Tuesday,	10										
Wednesday,	16										
Thursday,	19										
Friday,	14										
Total.	95										

Menlo Park, N. J., Sept 28th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Oct 4th

	Electric light	Lacing Dynamos	Mold Tyfan									
Saturday,	9											9
Sunday		5										5
Monday,	10		3									13
Tuesday,			10									10
Wednesday,			13									13
Thursday,			13									13
Friday,			13									13
Total.												76

Menlo Park, N. J., Sept 28th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Mr. Force

Week ending Octoles 4th

	Cinders	Electric light	Lacing	Tyfan								
Saturday,	4		4									8
Sunday	3			3								6
Monday,	10		8									18
Tuesday,	4		6									4
Wednesday,	9	8										17
Thursday,	10	8	2									17
Friday,	2		6									
Total.	32	16	26	3								40

Menlo Park, N. J., Oct. 3d 1878

EDISON'S LABORATORY,

TIME SHEET,

For Joseph Freeman

Week ending Oct 4th

	Electric Light										
Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,	5										
Friday,	10										
Total.											

Sept 27 to ~~Oct 4~~

Menlo Park, N. J., 1878

EDISON'S LABORATORY,

TIME SHEET,

For S L Griffin

Week ending Oct 4

Saturday,	Attending Office										
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

S. L. Griffin

Menlo Park, N. J., Oct. 20 1878

EDISON'S LABORATORY,

TIME SHEET,

For R. H. Runge

Week ending Oct 4th.

	Electric Light											
Saturday,												
Monday,												
Tuesday,												
Wednesday,	8	18.										
Thursday,	13.											
Friday,	13.											
Total.	34											

Menlo Park, N. J., Sept 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For John Hood

Week ending Oct. 4th

	Electric Light											
Saturday,	10										10	
Monday,	15										15	
Tuesday,	10										10	
Wednesday,	13										13	
Thursday,	13										13	
Friday,	13										13	
Total.	74										74	

Menlo Park, N. J., Sept 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo Jackson

Week ending Oct 4th 78

	Wiring & Tinsmith	Electric Light									
Saturday,	8	2									10
Sunday	7	1									8
Monday,		13									13
Tuesday,		10									10
Wednesday,		13									13
Thursday,		13									13
Friday,		13									13
Total.		68									80

Menlo Park, N. J., Sept 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For John Kruesi

Week ending Oct. 4th 78

	Experimental & Experiment Shop & Gold		Brass & Copper & Wheels								
Saturday,	8	7									
		5	2								
Monday,	10	6									
Tuesday,	8	3									
Wednesday,		13									
Thursday,		10		4							
Friday,		13									
Total.	21	58	2	4							

Menlo Park, N. J., Oct 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos Logan

Week ending Oct 26th

	Electric Light									
Saturday,	8									8
Monday,	12									12
Tuesday,	10									10
Wednesday,	13									13
Thursday,	13									13
Friday,	13									13
Total.										69

Menlo Park, N. J., Oct 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Morsfield

Week ending Oct 26th

	Filling in the Dyes	Fitting Frames									
Saturday,											
Monday,	5										
Tuesday,	10										
Wednesday,		5									
Thursday,	10										
Friday,											
Total.											

Menlo Park, N. J., Sept. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Alf. Swanson

Week ending Oct 4th

	Tuning and Engineering	Shop Work	Clerk Building	Building the Engine	Tool Making	Electric Light	Dynamo Foundation Making	Clerk Making			
Saturday,	9.	6.	3.								9.
Sunday	5.			5.							5.
Monday,	13.	6				7					13.
Tuesday,	11.	4½			5.		1½				11.
Wednesday,	12.	4.				8.					12.
Thursday,	13.	8.						5.			13.
Friday,	13.	4.				9.					13.
Total.	76.	32½	3.	5	5	24.	1½	5.			76.

Menlo Park, N. J., Sept 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Theo Whitney

Week ending Oct 4th

Saturday,	Laboratory work and lamp trucks
Monday,	Laboratory work and pressing carbon
Tuesday,	Laboratory work and pressing carbon
Wednesday,	Laboratory work and pressing carbon
Thursday,	Laboratory work
Friday,	Laboratory work pressing carbon
Total.	Electric Point and cleaning battery jars

Menlo Park, N. J., Oct 4th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Arthur Andrews

Week ending Oct 11th

Saturday,	10											
Sunday	5											
Monday,	10											
Tuesday,	10											
Wednesday,	10											
Thursday,	10											
Friday,	10											
Total.												

Menlo Park, N. J., Oct 4th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Mr P. Andrews

Week ending Oct 11th

	Tool Room	Laboratory	Office									
Saturday,	10											
Sunday		9										
Monday,	5½	2½	4½									
Tuesday,	7	3										
Wednesday,	8	4½										
Thursday,	10											
Friday,	10											
Total.	50½	19	4½									74

Menlo Park, N. J., ... 18

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Batchelor

Week ending Oct 11th

	Electric Light	Phonograph	Electric Pen									
Saturday,	15	2										
Sunday	12	3										
Monday,		15										
Tuesday,		15										
Wednesday,	10	5										
Thursday,	10	5										
Friday,			8									
Total.												

Menlo Park, N. J., Oct 11th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Barman

Week ending Oct 11th

	Work Shop	Phonograph	Electric Light	Electric Pen	Chemical							
Saturday,	Work 6 hrs			2								
Monday,	6	2	4									
Tuesday,	6		14									
Wednesday,	6		3	2	2							
Thursday,	6			4	2							
Friday,	6	3	5									
Total.	36	5	26	6	4							

Menlo Park, N. J., Oct 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm Carman

Week ending Oct 11th

Saturday,													
Monday,	1/4	Book Keeping Books											
Tuesday,	2/4	Electric Light Drawing											
Wednesday,	1/4	Sunday drawings											
Thursday,													
Friday,													
Total.													

Wm Carman

Menlo Park, N. J., Oct 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Doan

Week ending Oct 11th

	Blot Phonograph	Chronometer	Electric Light										
Saturday,													
Monday,													
Tuesday,	2	2	5										
Wednesday,			10										
Thursday,			13										
Friday,			13										
Total.	2	2	42										

Menlo Park, N. J., Oct. 17th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Chas. P. Edison

Week ending Oct. 17th

	Wages 87												
Saturday,	16												
Sunday	9												
Monday,	13												
Tuesday,	14												
Wednesday,	16												
Thursday,	15												
Friday,	8												
Total.	91												

Menlo Park, N. J., Oct 17th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Oct 17th

	Allowed Telephone Switch	Electric Light											
Saturday,	9												9
Monday,	8												8
Tuesday,	13												13
Wednesday,	10												10
Thursday,	9	4											13
Friday,	3	7	2	2									13
Total.	52	11											66

Menlo Park, N. J., Oct 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. N. Force

Week ending Oct 14th

	[illegible]	[illegible]	[illegible]									
Saturday,	4	4										
Sunday	6		4									
Monday,	1	4	6									
Tuesday,	7	3										
Wednesday,	8											
Thursday,	2	3	12									
Friday,	6	2										
Total.	33	18	22									

Menlo Park, N. J., Oct 21 1878

EDISON'S LABORATORY,

TIME SHEET,

For S. L. Griffin

Week ending Oct 14th

Saturday,	Attending Office											
Monday,												
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.												

S L Griffin

Menlo Park, N. J., Oct 4th 1878

EDISON'S LABORATORY,

TIME SHEET,

For R. Heinze

Week ending Oct 11th

	Electric Light	Electric Light	Electromotive Work									
Saturday,	10											10
Sunday,	10											10
Monday,	13											13
Tuesday,	13											13
Wednesday,	10											10
Thursday,	14											14
Friday,	5		8.									13
Total.												83

Menlo Park, N. J., Oct 4th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Hood

Week ending Oct 11th

	Electric Light	Electric Light	Electric Light									
Saturday,	10											10
Sunday,		10										10
Monday,	13											13
Tuesday,	13											13
Wednesday,	10											10
Thursday,	13											13
Friday,	13											13
Total.	72	10										82

Menlo Park, N. J., Oct 12th 1888

EDISON'S LABORATORY,

TIME SHEET.

For Geo Jackson

Week ending Oct 11th

	Geo Jackson										
Saturday,	8										8
Monday,	12										12
Tuesday,	13										13
Wednesday,	9½										9½
Thursday,	13										13
Friday,	13										13
Total.	68½										68½

Menlo Park, N. J., Oct 4th 1888

EDISON'S LABORATORY,

TIME SHEET,

For J. Lemere

Week ending Oct 11th

	Electric Light	Electro Power	Electro Motor	Dynamo	Laboratory						
Saturday,	10				0						
Monday,	10	3									
Tuesday,	8	2	3								
Wednesday,	1		3	6							
Thursday,	4		2	8							
Friday,	13										
Total.	46	5	8	14	2						

Menlo Park, N. J., Oct 4th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Thos Logan

Week ending Oct 11th

	Electric Light	Electro Power	Electro Motor	Laboratory							
Saturday,	10										10
Monday,	12										12
Tuesday,		13									13
Wednesday,		4	6								10
Thursday,			13								13
Friday,	7		8								15
Total.	29	13	22								68

Menlo Park, N. J., Oct 6th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Oliff Swanson

Week ending Oct 11th

	Drawing on Engines	Shop Work	Cabinet & Engine	Cleaning the Boiler	Making Coke	Gas Setting up	Cabinet for Lab	Cabinet & Engine	Drawing engine Boiler		
Saturday,	9.	6.	3.								
Sunday,	9.	6		3.							
Monday,	13.	8.			5.						
Tuesday,	13	7.				5.	1.				
Wednesday,	10.	7.			3.						
Thursday,	13.	8.	2.					3.			
Friday,	13	5½	6.					[illegible]	1½		
Total.	80.	47½	11.	3.	8.	5.	1.	3.	1½		80.

S. S.

Menlo Park, N. J., Oct 6th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Chas Marsfitt

Week ending Oct 11th

	Fitting Disk	Polishing Lenses	Cleaning Vacuum Pumps	Fitting Pumps	Digging Ditch						
Saturday,	5										
Monday,	7½	1½									
Tuesday,			10								
Wednesday,	2		8								
Thursday,	2			8							
Friday,					4						
Total.	18½	1½	18	8	4						49

Menlo Park, N. J., Oct 6th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Theo Whitney

Week ending Oct 11th

Saturday,	Laboratory work Electric point and pressing carbon
Monday,	Laboratory work and pressing carbon and electric point
Tuesday,	Laboratory work and pressing carbon
Wednesday,	Laboratory work and pressing carbon
Thursday,	
Friday,	Laboratory work and pressing carbon
Total.	

Menlo Park, N.J. Oct. 11th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Arthur Andrus

Week ending Oct 18th

	Arthur Andrus
Saturday,	10
Monday,	10
Tuesday,	10
Wednesday,	6
Thursday,	
Friday,	
Total.	36

Menlo Park, N. J., Oct 11th 1888

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrus

Week ending Oct 18th

	M. P. Andrus	
Saturday,	10	
Monday,	7	3
Tuesday,	6	4
Wednesday,	10	3
Thursday,	10	3
Friday,	7	3
Total.	50	16

Menlo Park, N. J., Oct 11th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending Oct 18th

	Electric Light	Machine Shop	New Shop	Telephone								
Saturday,	10	2										
Sunday,	18											
Monday,	13	5										
Tuesday,	13	5										
Wednesday,	13	5										
Thursday,	5		5	5								
Friday,	9	3	6	~~3~~								
Total.	72	20	11	8								

Menlo Park, N. J., Oct 11th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Oct 18th

	New Yorker	Chas Phillips	Electric Light	Gardener								
Saturday,	6	4										
Monday,	6		8	3								
Tuesday,	7		5	3								
Wednesday,	6		4		2							
Thursday,	~~8~~		2	6								
Friday,	7		~~3~~									
Total.												

Menlo Park, N. J., Oct 11th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm Carman

Week ending Oct 18th

Saturday,	Posting Books & Electric Light Rec'ds											
Monday,		"			Barcodes & Patents							
Tuesday,		"				"			"	"		
Wednesday,		"			drawing records							
Thursday,		"					"		"			
Friday,												
Total.												

Menlo Park, N. J., Oct 11th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Dean

Week ending Oct 18th

					Elec. Light							
Saturday,					10							
Monday,					10							
Tuesday,					12½							
Wednesday,					13							
Thursday,					13							
Friday,					10							
Total.					68½							

Menlo Park, N. J., Oct. 11th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas P. Edison

Week ending Oct 18th

	Wood Reel
Saturday,	10
	10
Monday,	10
Tuesday,	10
Wednesday,	10
Thursday,	10
Friday,	10
Total.	70

Menlo Park, N. J., Oct 11th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Oct 18th

	Cleaning up Electric Light		and Dynamo Machine Experiments		
Saturday,	1	6.	2		9
Monday,				10	10
Tuesday,		2		11	13
Wednesday,		9		4	13
Thursday,		10			10
Friday,		10			10
Total.	1	37	2	25	65

Menlo Park, N. J., Oct 11th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. F. Force

Week ending Oct 18th

	Carbon Poppy Oil Lamp	Laboratory	Laboratory Lamp	Machine Shop Lathe & Drill	Carbon Lamp
Saturday,	8	2			
Friday		6			
Monday,		6		4	
Tuesday,	1	3	2	8	
Wednesday,	6			3	14
Thursday,	4	3		3	3
Friday,	4	4			5
Total.					

Menlo Park, N. J., Oct 11th 1878

EDISON'S LABORATORY,

TIME SHEET,

For S. L. Griffin

Week ending Oct 18th

Saturday,	Attending Office
Monday,	
Tuesday,	
Wednesday,	
Thursday,	
Friday,	
Total.	

S. L. Griffin

Menlo Park, N.J., Oct. 11th 1878

EDISON'S LABORATORY,

TIME SHEET,

For R. Hendie

Week ending Oct 18th

	Chas. Kruesi by myself	Jno. Fitzpatrick by myself	Chas. Mansfield	Bridget Murphy	Thos. Mc Grane	Chas. Hardy	E. F. Smith				
Saturday,	10										10
Sunday	8										8
Monday,	13.										13
Tuesday,	8.	5									13.
Wednesday,		5	6	2.							13.
Thursday,					11	2.					13.
Friday,						2.	8				10
Total.	39	10									80.

Menlo Park, N. J., Oct 17th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Hood

Week ending Oct 18th

	Chas. Kruesi by myself	Chas. Mansfield	Jno. Fitzpatrick Night Watch	Robt. Porter	Robt. Porter Electric Light	Geo. Campbell	Geo. Barry	Thos. Mc Grane			
Saturday,	3									3	
Monday,			10							10	
Tuesday,				7	3					10	
Wednesday,	7						3			10	
Thursday,					2	8				10	
Friday,	10									10	
Total.	20		10	7	5	8	3			53	

Menlo Park, N. J., Oct 11th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Geo Jackson

Week ending Oct 18th

	Electric Light											
Saturday,												
Monday,												
Tuesday,	11½											11½
Wednesday,	13											13
Thursday,	13											13
Friday,	10											10
Total.												47½

Menlo Park, N. J., Oct 11th 1888

EDISON'S LABORATORY,

TIME SHEET,

For J Krusi

Week ending Oct 18th

	Electric Light	Laboratory	Machine Room	Building Power								
Saturday,	10											
	2	4										
Monday,	10	2	3									
Tuesday,	14		1									
Wednesday,	10			5								
Thursday,	8				6							
Friday,	10											
Total.	14	6	4	5	6							85

Menlo Park, N. J., Oct. 11th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Thos Logan

Week ending Oct 18th

	Electric work	Electric lighting	Electric Light	Electric motor	Electric motor secondary								
Saturday,	5	3											8
Monday,		9											9
Tuesday,		1	9										10
Wednesday,	1	6	6										13
Thursday,			6	7									13
Friday,			4	6									10
Total.	6	19	25	13									63

Menlo Press

Menlo Park, N. J., Oct 11th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Marshall

Week ending Oct 18th

	Press Work	Work on Boy	Packing Boxes	Filling gas Boy									
	H	H	H	H	H	H							
Saturday,	10												
Sunday		7											
Monday,		10											
Tuesday,	8	2											
Wednesday,	10												
Thursday,	9		5										
Friday,	5		5	3									
Total.	42	19	10	3									74

Menlo Park, N. J., Oct 14th 1888

EDISON'S LABORATORY,

TIME SHEET,

For J. F. Off

Week ending Oct 18th

	Carbon Pencil Telephone	Phonograph Tin										
Saturday,	~~10~~											~~10~~
Monday,	9											9
Tuesday,	10											10
Wednesday,	13											13
Thursday,	10	3										13
Friday,	10											10
Total.	62	3										64

Menlo Park, N. J., Oct 11th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Oliff. Swanson

Week ending Oct 18th

	Pressing Carbon	Lamp Work	Testing Carbon Pencils	Testing Phonograph	Electrical Off	Making Tools						
Saturday,	9	2.	3.	4.								
Sunday	7.											
Monday,	13.	5.		8.								
Tuesday,	13.	8.		5.								
Wednesday,	13	7.			3.	3.						
Thursday,	13.	5	3		5.							
Friday,	10.	10										
Total.	78.	07	6	17	8	3						

Menlo Park, N. J., Oct 11th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Theo. Whitney

Week ending Oct. 18th

Saturday,	Laboratory work and pressing carbon
Monday,	Laboratory work and pressing carbon
Tuesday,	Laboratory work and telephone
Wednesday,	Laboratory work Lamp black 3½ h. pressing carbon through
Thursday,	Laboratory work Lamp black 7 hours
Friday,	Laboratory work Lamp black 8 hours and pressing carbon 5 hours
Total.	

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrews

Week ending Oct 25

	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Baldwin	[illegible]			
Saturday,		7	3								10.
Sunday,	10										10
Monday,		10	11	9½							12½
Tuesday,		8½			1½	3					13
Wednesday,	4	6					3				13
Thursday,		10					3				13
Friday,		7					1	3			11
Total.	14	48½	14	9½	1½	3	4	3			92½

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending Oct 25th

	Chas Batchelor	Charles Boyle	Geo Wilson								
Saturday,	10										
		10									
Monday,	10	3									
Tuesday,	10	4									
Wednesday,	9	6									
Thursday,	12	3									
Friday,	12		6								
Total.											

Menlo Park, N. J., _____ 18

EDISON'S LABORATORY,

TIME SHEET,

For H. A. Campbell

Week ending _____

	Coal house Fence									
Saturday,										
Monday,										
Tuesday,										
Wednesday,										
Thursday,	10									
Friday,	7	3								
Total.										

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Oct 25th

	New Shop	Fence Lab.	Chemical Bldg	Chemical Bldg	New Garden	New Building					
Saturday,	6	3									
Sunday			12								
Monday,	6		8								
Tuesday,	8			3							
Wednesday,	6			2	7						
Thursday,	~~8~~					12					
Friday,				5		8					
Total.											

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm Carman

Week ending Oct 25th

Saturday,												
Monday,												
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.												

Attending to Office

Sundries

W Carman

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For F. Cornish

Week ending Oct 25th

	General Laboring											
Saturday,												
Monday,	7											7
Tuesday,	16											16
Wednesday,	16											16
Thursday,	12											12
Friday,	16											16
Total.												47

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Dean

Week ending Oct 25th

	E. Sin Light									
Saturday,	7									
Monday,	10									
Tuesday,	13									
Wednesday,	13									
Thursday,	12									
Friday,	10									
Total.	63									

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas P. Edison

Week ending Oct 25th

	Mem Lecture									
Saturday,	10									
	10									
Monday,	10									
Tuesday,	10									
Wednesday,	10									
Thursday,										
Friday,										
Total.	50									

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Oct 25th

	Electric light	Electric Tunnel	Experimental	Testing dynamos								
Saturday,	9											9
Monday,	2½	10½										13
Tuesday,		13										13
Wednesday,	4	9										13
Thursday,	6		4									10
Friday,	9			1								10
Total.	30½	32½	4	1								68

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. N. Fosse

Week Ending Oct 25th

	Experiments	Experiment	Electric light	Repairing Jam Dynamo Jam and Engine	Tech work							
Saturday,	2			8								
Quarter			11									
Monday,	6		8									
Tuesday,	2	8										
Wednesday,		10										
Thursday,		7			3							
Friday,		10										
Total.	8	35	19	8	5							

Menlo Park, N. J., Oct 18 1888

EDISON'S LABORATORY,

TIME SHEET,

For A L Griffin

Week ending Oct 25

Saturday,														
Monday,														
Tuesday,														
Wednesday,														
Thursday,														
Friday,														
Total.														

Attending Office

A L Griffin

Menlo Park, N. J., Oct 18th 1888

EDISON'S LABORATORY,

TIME SHEET,

For R. Hense

Week ending Oct 25th

	Chas. W. Wright	Charles Lorrain	Peter Strauss	Charles Lorrain	Peter Strauss									
Saturday,	7.	2.												7.
Monday,		4.												
Tuesday,		4.	9.											12
Wednesday,			8	5										13.
Thursday,					10									10
Friday,					10									10
Total.														53

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Wood

Week ending Oct 25th

	Electric Light	Edison Engine	Long Experiments									
Saturday,	10										10	
Sunday,		10									10	
Monday,	10										10	
Tuesday,	5		5								10	
Wednesday,	13										13	
Thursday,	12										12	
Friday,	10										10	
Total.	60	10	5								75	

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Jackson

Week ending Oct 25th

	Electric Light	Long Experiments										
Saturday,	10											10
Monday,	12											12
Tuesday,	13											13
Wednesday,	13											13
Thursday,	10											10
Friday,	9											9
Total.												67

1

Menlo Park, N. J., Oct 18th 1888

EDISON'S LABORATORY,

TIME SHEET,

For J Kruesi

Week ending Oct 25th

	Mr Kruesi	Incandescent Light	Incandescent Work	Work	Blacksmith							
Saturday,	4	6										
	10											
Monday,	5	10										
Tuesday,		10			7							
Wednesday,		10		3	3							
Thursday,			8	4								
Friday,	2	6		2								
Total.	21	42	8	9	10							

2

Menlo Park, N. J., Oct 18th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Thos Logan

Week ending Oct 25th

	Electro Mimeograph Machines	Incandescent Light										
Saturday,	8	2										10
Monday,	6	3										9
Tuesday,	10											10
Wednesday,		5										5
Thursday,												
Friday,		7										7
Total.	24	17										41

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Morgan

Week ending Oct 25th

	Work on Telephone	Tasson Bros	Elsing Bros	Work on Bell Tele	Mr Porter Tel	Travelling Record					
Saturday,	10										10
Sunday		2									2
Monday,	5		5	3							13
Tuesday,	13										13
Wednesday,	5				5						10
Thursday,					10						10
Friday,	2				5	8					10
Total.	35	2	5	3	20	3					68

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. F. Ott

Week ending Oct 25th

	Work on Telephone										
Saturday,	10										10
Monday,	11½										11½
Tuesday,	13										13
Wednesday,	13										13
Thursday,	10										10
Friday,	9										9
Total.											66½

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For A. Swanson

Week ending Oct 25th

	Painting & Lettering	Shop work	Tool making	Painting the Dynamo	Wire	Electric Lighting						
Saturday,	10.	7.	3									
Sunday	8.					8.						
Monday,	13.	9.	4.									
Tuesday,	13.	8		5.								
Wednesday,	13.	10				3.						
Thursday,	12	5			7.							
Friday,	10	2			8							
Total.	79	7 hours										

1

Menlo Park, N. J., Oct 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Theo. Whitney

Week ending Oct 25th

	Laboratory work	Lamp Work	Laboratory work	Cleaning Cellar	Cleaning up							
Saturday,	9	3		4½								
				4½								
Monday,	9	2		2½								
Tuesday,	9	1		2½								
Wednesday,					7							
Thursday,					8							
Friday,					8							
Total.	27	6	9½	23								

Menlo Park, N. J., Oct. 25th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. C. Andrews

Week ending Nov. 1st

	M. Sheet Metal		M. Lamp Room	Pedal St.								
Saturday,	7	3										
Sun		12									☆	
Monday,	4		6									
Tuesday,			10									
Wednesday,			10									
Thursday,	3		7									
Friday,	9			1								
Total.	23	15	33	1								72

1210

Menlo Park, N. J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending Nov 1st

	Mus Receiving	Electrical Wk	Mus Shop									
Saturday,			10									
Sunday			10									
Monday,	10		5									
Tuesday,	5	8	6									
Wednesday,	12	4										
Thursday,	12	6										
Friday,	12	6										
Total.												

Menlo Park, N. J., ... 18

EDISON'S LABORATORY,

TIME SHEET,

For H. O. Campbell

Week ending Nov 1st

	Lab. Hours	Shop	Machine Ball	General Laboratory								
Saturday,	7	3										
Monday,	10											
Tuesday,	10											
Wednesday,	7		3									
Thursday,	10											
Friday,	2		4	4								
Total.	46	3	4	4								

Menlo Park, N. J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Nov. 1st

	[illegible]	[illegible]	[illegible]									
Saturday,	6	5										
Monday,	7	2	4									
Tuesday,	7	6	1									
Wednesday,	8	5										
Thursday,	7	12	1									
Friday,	10											
Total.												

Menlo Park, N. J., Oct 25th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Wm Carman

Week ending Nov. 1st

Saturday,												
Monday,												
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.												

Attending to Office

Menlo Park, N. J., Oct 25th 1888

EDISON'S LABORATORY,

TIME SHEET,

For F. Carnish

Week ending Nov 1st

Saturday,	7	6									2	6
Monday,												
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.												

Menlo Park, N. J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Dean

Week ending Nov. 1st

	Editing & Ink	Ink on Wire			Ink	Editing & Ink					
Saturday,	7										7
											–
Monday,	7										7
Tuesday,	7	3									10
Wednesday,			10								10
Thursday,			10								10
Friday,				5	3	2					10
Total.											54

85
90
75
105
1.50

Menlo Park, N.J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Flammer

Week ending Nov. 1st

	Making sketches	Ink &c	Make sketches	Ink	Electric light	Ink	Ink	Finishing sketches			
Saturday,	7	2									9
Monday,	7		1	2							10
Tuesday,			4		6						10
Wednesday,			10								10
Thursday,			10								10
Friday,						9½	1½				10
Total.											59

Menlo Park, N. J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET.

For Mr Price

Week ending Nov 1st

					Main Building	New Shop Bldg	Acc. Bldg				
Saturday,					8						
Sunday,	1	3	3								
Monday,			10								
Tuesday,			5	5							
Wednesday,			8		4						
Thursday,			18								
Friday,				5		2					
Total.	3		44	10	4	2					

Menlo Park, N. J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET.

For S L Griffin

Week ending Nov 1st

Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

Attending Office

S L Griffin

Menlo Park, N. J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET.

For R. Wense

Week ending Nov 1st

	Gustav Lapp	Charles Lapp	Jos. Dunn	Chas. Lapp	Jos. Lapp	Jos. Lapp	Jos. Dunn	Jos. Dunn	Chas. Mellen	
Saturday,	4½	5½								10
Sunday	×	×	3 ×							3.
Monday,				4	8½					12½
Tuesday,				×	×	5	8			13.
Wednesday,						×	10			10
Thursday,							10			10.
Friday,							×	5.	5.	10
Total.										68½

270
120
150
132
150
1.55

Menlo Park, N. J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET.

For J Wood

Week ending Nov 1st

	Charles Lapp for Jos. Lapp	Wm. C. Barrett	Wm. Carman	Jos. Lapp	Jos. Lapp	Chas. Lapp					
Saturday,	10									10	
Sunday		12								12	
Monday,	5		5							10	
Tuesday,	10									10	
Wednesday,				5	5					10	
Thursday,				10						10	
Friday,				10						10	
Total.	25	12	5	25	5					72	

Menlo Park, N. J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET,

For G. Jackson

Week ending Nov 1st

	00 Dynamo	Edison Pen	Edison Pen	Edison Pen									
Saturday,	10												10
Monday,	4	3											7
Tuesday,		10											10
Wednesday,	10												10
Thursday,		7											7
Friday,	10												10
Total.													54

Menlo Park, N. J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Krusi

Week ending Nov 1.

	Electric Light	Electric Motors	Dynamo Exciters	Induction Coil									
Saturday,	4	4	4										
			5										
Monday,	3	3	2										
Tuesday,	3	6	2										
Wednesday,	3	4	2	2									
Thursday,	2	6	6	4									
Friday,	6	4	2										
Total.	21	27	24	6									58

Menlo Park, N. J., Oct 25 1878

EDISON'S LABORATORY,

TIME SHEET.

For Thos Sagan

Week ending Nov. 1st

	[illegible]	[illegible]	[illegible]	[illegible]								
Saturday,	10											10
Monday,	6		3									9
Tuesday,			10									10
Wednesday,		3	8	4								10
Thursday,				10								10
Friday,				10								10
Total.												59

Menlo Park, N. J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET.

For Chas. Morfitt

Week ending Nov. 1st

	on Lamps	on Wire Work	on Telephone	on Polarized Relays								
Saturday,	10											
Sunday		10										
Monday,	2		3	5								
Tuesday,			3	5								
Wednesday,			5	5								
Thursday,	3			7								
Friday,	3			7								
Total.	18	10	16	29								73

Menlo Park, N. J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. F. Ott

Week ending Nov 1st

	Experimental Work	Hold Spring	Cast Iron Table Stand								
Saturday,	3	5									10
Monday,			7								7
Tuesday,			10								10
Wednesday,		5	5								10
Thursday,		[illegible]	18								18
Friday,		7½									7½
Total.		17½	40								62½

Menlo Park, N. J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET,

For A. Swanson

Week ending Nov 1st

	Painting on Engraving	Repairing Work	Making Stands	Cleaning Tools	Repairing Tools	Making Tin Boxes	Running Tin Boxes	Collegrafter		
Saturday,	10	3	7							10
Sunday	10	2	6	2						10
Monday,	10	2	8		2					10
Tuesday,	10	4	6							10
Wednesday,	10	7				3				10
Thursday,	10	3					7			10
Friday,	10	2						8		10
Total.	70	23	25	2	2	3	7	8		70

Menlo Park, N. J., Oct 25th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos. Whitney

Week ending Nov. 1st

	Cleaning	Laboratory	New Receiver	Castaice	Chalkis room						
Saturday,	4	3									
Monday,	5	4									
Tuesday,	~~1~~	~~2~~	4								
Wednesday,	4	2			1						
Thursday,	2	3			2						
Friday,		2½		3							
Total.		14½	4	3	3						

Menlo Park, N. J., Nov. 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrews

Week ending Nov 8th

	Mon Bed Lamp	M. P. Lamp	Andrews Lamp								
Saturday,	10	12									
Sun	4										
Monday,	10										
Tuesday,	10										
Wednesday,	10										
Thursday,	10										
Friday,	10										
Total.	64	12									

Menlo Park, N. J., Nov 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Batchelor

Week ending Nov 8th

	Mon Tower	Electric Light	Mon Shop								
Saturday,	6		5								
Sunday,	7		4								
Monday,	3	7	5								
Tuesday,	3	8	5								
Wednesday,		10	5								
Thursday,		10	5								
Friday,		10	5								
Total.											

Menlo Park, N. J., Nov 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For Alex. Campbell

Week ending Nov. 8th

	[illegible]	[illegible]										
Saturday,	8	5										
Monday,	5	5										
Tuesday,												
Wednesday,												
Thursday,												
Friday,	10											
Total.	20	10										

Menlo Park, N. J., Nov 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Nov. 8th

	[illegible]	[illegible]	[illegible]									
Saturday,	8	2										
Monday,	7	5	3									
Tuesday,		10		2								
Wednesday,	8	3		2								
Thursday,	10	3										
Friday,	7	2										
Total.												

Menlo Park, N. J., Nov 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm Carman

Week ending Nov. 8th

Saturday,													
	1/13	Same	Man	Building									
Monday,	2/13	attending	Office										
Tuesday,													
Wednesday,													
Thursday,				W Carman									
Friday,													
Total.													

Menlo Park, N. J., Nov 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Doan

Week ending Nov 8th

	Electric Light	Electric Light	Telephone								
Saturday,	10										10
Monday,	7										~~7~~
Tuesday,	7	3									10
Wednesday,	10										10
Thursday,	10										10
Friday,	1		9								10
Total.	45	3	9								57

Menlo Park, N. J., Nov 1st 1888

EDISON'S LABORATORY,

TIME SHEET,

For Gas Hammer

Week ending Nov 8th

	Tools	Harmonic Dynamometer	electric light	factory & store	Carbon assembled	water pump	[illegible]	Galvanometers & new Galvs		
Saturday,		9								9
Monday,		2	7							9
Tuesday,			7¼	3/4	2					10
Wednesday,			6		4					10
Thursday,	2	2	3			3				10
Friday,			8½					1½		10
Total.	2	13	31	1	6	3		1½		58

Menlo Park, N. J., Nov. 1st 1888

EDISON'S LABORATORY,

TIME SHEET,

For M. Force

Week ending Nov 8th

	Laboratory	Electric light	Mr. Kennedy							
Saturday,	6	4								
Sunday		6								
Monday,	6	4								
Tuesday,	4	8								
Wednesday,	4	10								
Thursday,	8	4	4							
Friday,	4	2	6							
Total.	32	36	10							

Menlo Park, N. J., Nov 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For S. L. Griffin

Week ending Nov 8th

Saturday,												
Monday,												
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.												

Attending Office

S. L. Griffin

Menlo Park, N. J., Nov 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For R. Hense

Week ending Nov 8th

	Chas. Kinsley	Chas. Stephens	Chas. Stephens	Thos. Mahoney	Chas. Stephens	Chas. Stephens	Chas. Stephens	J. Rayburn	J. Rayburn		
Saturday,	~~10~~	~~11~~									10 ~~11~~
Monday,		9	~~10~~ 7.	3.	1						9.
Tuesday,						4.	6				11.
Wednesday,							6	4			10
Thursday,									10		10
Friday,											10
Total.											60

Menlo Park, N. J., Nov. 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Ribod

Week ending Nov. 8th

	Experimental Purposes	Gen'l Purposes	Electric Light							
Saturday,	10									10
Monday,		8								8
Tuesday,		9	1							10
Wednesday,		10								10
Thursday,		10								10
Friday,		5		5						10
Total.		42								58

Menlo Park, N. J., Nov 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo Jackson

Week ending Nov 8th

	Electric Light		
Saturday,	10		10
Monday,	9		9
Tuesday,	9½		9½
Wednesday,	10		10
Thursday,	10½		10½
Friday,	10		10
Total.			59

Menlo Park, N. J., Nov 8 18 78

EDISON'S LABORATORY,

TIME SHEET,

For J. R. Knight

Week ending Nov 8. 78

	Day work Experiments										
Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,	6										
Friday,	10										
Total.											

Menlo Park, N. J., Nov 18 18 78

EDISON'S LABORATORY,

TIME SHEET,

For J. Krusi

Week ending Nov 8th

	J. Krusi	Mason Gardner	Mills	Robinson	Quimby Barnum Porter	Van Alstine	A. Francis			
Saturday,	4	5	2							
			4	6						
Monday,	6		4		2					
Tuesday,	6	1			1	3				
Wednesday,	5	1			1					
Thursday,	~~8~~									
Friday,	6	3			2					
Total.	35	10	10	6	5	12	2			

Menlo Park, N. J., Nov. 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos Logan

Week ending Nov. 8th

	Winnie Dinnie Wade	Will Bolton	Geo. Bretching								
Saturday,	2	8									10
Monday,	7										7
Tuesday,	5		5								10
Wednesday,			5								5
Thursday,	6		4								10
Friday,	10										10
Total.	30	8	14								52

Menlo Park, N. J., Nov 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Marfitt

Week ending Nov. 8th

	Sidney	Geo. Gibbs	Chas. Marfitt								
Saturday,	5	2	3								
Sunday		2½									
Monday,	6	4	3½								
Tuesday,		10									
Wednesday,		10									
Thursday,		10									
Friday,		10									
Total.	11	47½	6½								67

Menlo Park, N. J., Nov. 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. F.Ott

Week ending Nov. 8th

	Making and filling in reports of Magnetic & Electric Lab.	Electric Lab.	Electric Shop	Time from Telephone Rec.	Manager Electric Light Co.					
Saturday,				17½						17½
Monday,		5								5
Tuesday,		7		3						10
Wednesday,	10				5½					15½
Thursday,	5		5							10
Friday,			10							10
Total.	15	12	15	20½	5½					68
	10									

Menlo Park, N. J., Nov 1st 1878

EDISON'S LABORATORY,

TIME SHEET,

For A. Swanson

Week ending Nov. 8th

	Drawing and Engraving	Asp. Work	Magnet	Wire	Shop	Walked for Pinkey				
Saturday,	10.	2.	2.	6.						
Sunday	10.			2.						
Monday,	10.	5.		5.						
Tuesday,	11½	8½			3.					
Wednesday,	10.	10.								
Thursday,	10.	10.								
Friday,	10	10				2.				
Total.	71½									

Menlo Park, N. J., Nov 1st 1888

EDISON'S LABORATORY,

TIME SHEET.

For Theo. Whitney

Week ending Nov 8th

	Laboratory	Cleaning	Dress boiler	Electric Light	Quinte Lime	Lamp Black	Cleaning Lab	Extra Permit		
Saturday,	4	2	1	1						
Monday,	3	8			2½					
Tuesday,	~~4~~									
Wednesday,	4	4					1			
Thursday,	3					6				
Friday,	2½					7		4		
Total.										

Menlo Park, N. J., Nov 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrus

Week ending Nov 15th

	Electric Light	Jack Knife	Battery									
Saturday,	10	2										
Monday,	10											
Tuesday,	10	2										
Wednesday,	10		4									
Thursday,	10											
Friday,	10											
Total.												69

Menlo Park, N. J., Nov. 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Batchelor

Week ending Nov 15th

	Electric Light	Mach. Shop.										
Saturday,	12											
	10											
Monday,	10	3										
Tuesday,	9	4										
Wednesday,	9	4										
Thursday,	9	4										
Friday,	9	4										
Total.												

Menlo Park, N. J., Nov 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Alex. Campbell

Week ending Nov. 15th

	Shop
Saturday,	10
Monday,	10
Tuesday,	10
Wednesday,	10
Thursday,	10
Friday,	10
Total.	60

Menlo Park, N. J., Nov 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Nov 15th

Saturday,	6		8		
Monday,	6	8			
Tuesday,	6	9	2		
Wednesday,	6	2	8		
Thursday,	8		8	5	
Friday,	7	3			
Total.					

Menlo Park, N. J., Nov 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm. Carman

Week ending Nov 15th

Saturday,													
Monday,													
Tuesday,													
Wednesday,													
Thursday,													
Friday,													
Total.													

Electric Light

Menlo Park, N. J., Nov. 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Dean

Week ending Nov. 15th

	Electric Light	Phonograph Model											
Saturday,	10											10	
Monday,	7											7	
Tuesday,	8											8	
Wednesday,	10											10	
Thursday,	8	5										10	
Friday,	10											10	
Total.	50	5										55	

Menlo Park, N. J., Nov. 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. P. Edison

Week ending Nov. 15th

	Work Lines										
Saturday,	10										
Monday,	10										
Tuesday,	10										
Wednesday,	10										
Thursday,	10										
Friday,	10										
Total.	100										

Menlo Park, N. J., Nov. 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. F. Flammer

Week ending Nov 15th

	Electric light	Working speed	Mess receiver	Model Jr. receiver	Talking carbon & receiver	Electric gas & battery tests					
Saturday,	7	2									9
Sunday	3										3
Monday,		4		6							10
Tuesday,			3	9							12
Wednesday,			1/2	9 1/2							10
Thursday,	1				8	1					10
Friday,				1 1/2		8 1/2					10
Total.	11	6	3 1/2	26	8	9 1/2					84

Menlo Park, N. J., Nov 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Mr. Force

Week ending Nov 15th

	Laboratory	Electric Light	Insc. Receiver	Carbons							
Saturday,	10										
Sunday	2	6									
Monday,	4	8	2								
Tuesday,		5	3	4							
Wednesday,		4	8	2							
Thursday,	2	8	2								
Friday,		10									
Total.	18	41	15	6							

Martin M. Force

Menlo Park, N. J., Nov 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For S. L. Griffin

Week ending Nov 15 78

Saturday,	Attending to Office										
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

S. L. Griffin

Menlo Park, N.J., Nov. 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For R. House

Week ending Nov. 15th

	Sundays Expts
Saturday,	10
Monday,	
Tuesday,	
Wednesday,	
Thursday,	
Friday,	
Total.	

Menlo Park, N. J., Nov. 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Hood

Week ending Nov. 15th

	Sundays Expts	Tues. Wed. Thurs. Fri. Sat. Extra Expts							
Saturday,	10								10
Monday,	10								10
Tuesday,		10							10
Wednesday,		13							13
Thursday,		13							13
Friday,		10							10
Total.	20	43							63

Menlo Park, N.J., Nov. 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Jackson

Week ending Nov. 15th

	To Electric Light Lamps	Telephone Work by Mr. Adams									
Saturday,	10										10
Monday,	8½										8½
Tuesday,	1	9									10
Wednesday,		10									10
Thursday,		9									9
Friday,		10									10
Total.	19½	38									57½

Menlo Park, N. J., Nov. 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. H. Knight

Week ending Nov. 15th

	Calculation Work
Saturday,	9
Monday,	10
Tuesday,	9
Wednesday,	12
Thursday,	13
Friday,	10
Total.	

Menlo Park, N. J., Nov. 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Kruesi

Week ending Nov. 15th

	[illegible]	[illegible]	[illegible]								
Saturday,	6	2	2								
	6										
Monday,	8	1	4								
Tuesday,	7	1	4								
Wednesday,	9	2	1								
Thursday,	10	3									
Friday,	10										
Total.		7	11								

Menlo Park, N. J., Nov 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos. Logan

Week ending Nov. 15th

	1 Dynamo machine	Electric light	Electric light	Mimeograph	Large Magnets	Electric light							
Saturday,	10												10
Monday,	7												7
Tuesday,		9	1										10
Wednesday,		8		2									10
Thursday,	3	7											10
Friday,	3			7									10
Total.													57

Menlo Park, N. J., _____ 18

EDISON'S LABORATORY,

TIME SHEET,

For Henry M. McIntire

Week ending November 15, 1878

	Drafting etc. for Lamps.										
Saturday,											
Monday,	5										
Tuesday,	10										
Wednesday,	10										
Thursday,	10										
Friday,	10										
Total.	45										

Menlo Park, N. J., Nov. 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Morsfett

Week ending Nov. 15th

	Music Building	Blackboard Work									
Saturday,	10										
Sunday,		8									
Monday,	10										
Tuesday,	10										
Wednesday,	10										
Thursday,	10										
Friday,	10										
Total.											

Menlo Park, N. J., Nov. 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. F. Ott

Week ending Nov. 15th

	Electric Light									
Saturday,	5									5
Monday,	5									5
Tuesday,	11									11
Wednesday,	3									3
Thursday,	10									10
Friday,	10									10
Total.	45									45

Menlo Park, N. J., Nov. 8th 1878

EDISON'S LABORATORY,

TIME SHEET,

For John Randolph

Week ending Nov. 15th

	[illegible]	Assisting Shaker	Assisting Bell	Assisting Shaker	Assisting Shaker	Assisting [illegible]				
Saturday,	1 h									
Monday,	10 h									
Tuesday,	10 h									
Wednesday,	10 h	1	1	8						
Thursday,	10 h				5	2	3			
Friday,	10 h			1	4	5				
Total.	60 h									

Menlo Park, N. J., Nov 8th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Alf. Swanson

Week ending Nov 15th

	Drawing and Engineering	Shop Work	Running Tests	Materials	Tests for Incandescent	Tests for Arc	Electric Light	Helping Experts	Carbon Work	
Saturday,	10.	7.							10	
Sunday	6.	2.							6	
Monday,	10	4.	6.						10	
Tuesday,	10.	8.		1.					10	
Wednesday,	10.	2.			5.	2.			10	
Thursday,	13.	6.					1.	6.	13	
Friday,	10	2.						8.	10.	
Total.	69.	31	6	1	5.	2.	1	6	8.	69.

Menlo Park, N. J., Nov. 8th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Theo. Whitney

Week ending Nov. 15th

	Lamp Black	Pressing Carbon	Carbon							
Saturday,	8									
Monday,	8									
Tuesday,	10	5								
Wednesday,	9	4	1							
Thursday,	9	1	2							
Friday,	9	5	1							
Total.										

Menlo Park, N. J., Nov 22 18, 8

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Owens

Week ending Nov 22d

	Mon Bailey	Pattern Maker								
Saturday,	10	3								
Sun										
Monday,	10									
Tuesday,	10									
Wednesday,	10									
Thursday,	10									
Friday,	6		4							
Total.										65

Menlo Park, N. J., Nov 18 18,8

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending Nov 22d

	Electricity J.L	Wire Rope								
Saturday,	10	2								
Sunday	12									
Monday,	10	3								
Tuesday,	12	3								
Wednesday,	12	2								
Thursday,	14	1								
Friday,	12	2								
Total.										

Menlo Park, N. J., Nov 15th 1878

EDISON'S LABORATORY,

TIME SHEET,

For C. Campbell

Week ending Nov 22d

	Wages for Week ending
Saturday,	10
Monday,	5
Tuesday,	10
Wednesday,	10
Thursday,	10
Friday,	10
Total.	55

Menlo Park, N. J., Nov 15th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo Carmen

Week ending Nov 22d

Saturday,	7	3									
Monday,	8	2									
Tuesday,	9		2								
Wednesday,	8	3									
Thursday,	8	2	2								
Friday,	8		4								
Total.											

Menlo Park, N. J., Nov 15th 1881

EDISON'S LABORATORY,

TIME SHEET,

For Wm Carman

Week ending Nov 22d

Saturday,												
Monday,												
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.												

Attending Office
Wm Carman

Menlo Park, N. J., Nov 15th 1881

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Dean

Week ending Nov 22d

	Chas. Dean	Chas. Dean Night										
Saturday,	8	2										10
Monday,	10											10
Tuesday,	10											10
Wednesday,	5	8										13
Thursday,	12½											12½
Friday,	10											10
Total.												[illegible]

Menlo Park, N. J., Nov 17th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Edison

Week ending Nov 22d

	Mac Ronnie										
Saturday,	10										
Monday,	10										
Tuesday,	10										
Wednesday,	12										
Thursday,	11										
Friday,	10										
Total.											

Menlo Park, N. J., Nov 17 18

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Nov 22d

	Fig. 8 Dr. Tom. Edison	Holding carbon	Winding spools	Cotton-thread winding	Dynamo-electric machine	assembling engine					
Saturday,	8	1									9
Monday,	10										10
Tuesday,	10										10
Wednesday,			3	9							12
Thursday,	7				8	3					15
Friday,	3				7	2					10
Total.											

Menlo Park, N. J., Nov 15th 18 78

EDISON'S LABORATORY,

TIME SHEET,

For Mr. Force

Week ending Nov 22d

					Pay Roll for 20 Men	Cartons						
Saturday,	4	4	4									
Monday,		9		3								
Tuesday,		14										
Wednesday,		14										
Thursday,		14										
Friday,	4	6			2							
Total.	12	67	2	3	2							

Menlo Park, N. J., Nov 15 1878

EDISON'S LABORATORY,

TIME SHEET,

For S. L. Griffin

Week ending Nov 22d

Saturday,												
Monday,												
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.												

Attending Office

S. L. Griffin

Menlo Park, N. J., Nov 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For R. Kruse

Week ending Nov 22d

				Electric Light	Electric [illegible]						
Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,				10							10
Friday,				10							10
Total.											20

Menlo Park, N. J., Nov 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J Hood

Week ending Nov 22d

	Electric Light	Edison Dynamo Electric Brakes	Shops Truck	Shop Expense	Telephone	Large Induction Coil					
Saturday,	12									12	
Monday,	5	5								10	
Tuesday,		3	7							10	
Wednesday,			10	2						12	
Thursday,			12							12	
Friday,			4		2	4				10	
Total.	17	8	33	2	2	4				66	

27
119 276 231
34
162 825

Menlo Park, N. J., Nov 15th 1879

EDISON'S LABORATORY,

TIME SHEET,

For Geo Jackson

Week ending Nov 22d

	Dynamo & Electric Machine	Electric Lamp											
Saturday,	8												8
Monday,	9												9
Tuesday,	10												10
Wednesday,	10												10
Thursday,	10	6											16
Friday,		10											10
Total.	47	16											63

Menlo Park, N. J., Nov 15th 1879

EDISON'S LABORATORY,

TIME SHEET,

For J. K. Knight

Week ending Nov 22d

				Electric Lamp								
Saturday,				8								
Monday,				11								
Tuesday,				12								
Wednesday,				10								
Thursday,				13								
Friday,				10								
Total.												

Menlo Park, N. J., [illegible] 18[illegible]

EDISON'S LABORATORY,

TIME SHEET,

For J. Kruesi

Week ending

	Electric Light			Dynamos							
Saturday,	10										
Monday,	9	11									
Tuesday,	10	2		1							
Wednesday,	10	2		1							
Thursday,	14	2		1							
Friday,	9	[illegible]		2							
Total.	[illegible]	19									

Menlo Park, N. J., Nov 15th 18[illegible]

EDISON'S LABORATORY,

TIME SHEET,

For Thos Sagar

Week ending Nov 22nd

	Large Magneto Electric Light Machine		Dynamos			Motor Tools	Electric Light					
Saturday,	2	8										10
Monday,		7	2									9
Tuesday,			9	1								10
Wednesday,			5			2						7
Thursday,			3			7	3					13
Friday,							10					10
Total.		15		1		9	13					59

Menlo Park, N. J., Mar 17th 1879

EDISON'S LABORATORY,

TIME SHEET,

For Henry M McFarlin

Week ending Mar 22d

Saturday,	10											
Monday,	9											
Tuesday,	9											
Wednesday,	9											
Thursday,	9											
Friday,	4											
Total.	45											

Menlo Park, N. J., Mar 17th 1879

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Barrett

Week ending Mar 22d

	Main Building	Yard & Laboratory	Posts	on Bath & Boarding	Man. Shop Tab.						
Saturday,	5	5									
Monday,	10		4								
Tuesday,	10										
Wednesday,	6			5½							
Thursday,					10½						
Friday,				4	6						
Total.	31	5	4	9½	16½						66

Menlo Park, N. J., Nov 15th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Ott

Week ending Nov 22d

	Edison	Johnson	Jamieson								
Saturday,	10										10
Monday,	9										9
Tuesday,	10										10
Wednesday,	10	2									12
Thursday,	5	10									15
Friday,	2	6	—								8
Total.	46	18									64

Menlo Park, N. J., Nov 15th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Randolph

Week ending Nov 22d

		Working on Saturday	Cleaning Laboratory	Board Office							
Saturday,	10	1	3								
Monday,	10	6	4								
Tuesday,	10	3	6	1							
Wednesday,	10	5	5								
Thursday,	10	4	6								
Friday,	10	3	5	8							
Total.	60										

Menlo Park, N. J., Nov 1 18 78

EDISON'S LABORATORY,

TIME SHEET,

For A. Swanson

Week ending Nov 2d

	Fitting and Engineering	Shop Work	Carting Coal	Putting the Engine	Work for Edison	Engineering	Tend Lathe	Work Tester			
Saturday,	10.	3.	7.								
Sunday				3.							
Monday,	13.	4.	3		6						
Tuesday,	13.	5.			4.	4.					
Wednesday,	13	5.				5.					
Thursday,	13.	4.	7.				2				
Friday,	13	4	0					3.			
Total.	77	25	9.	3	10	9	2	3			77.

Menlo Park, N. J., Nov 28th 18 78

EDISON'S LABORATORY,

TIME SHEET,

For Wm Jones

Week ending Nov 2d

	Working Engine										
Saturday,											
Monday,	10										
Tuesday,	10										
Wednesday,	10										
Thursday,	10										
Friday,	10										
Total.											

Menlo Park, N. J., Nov 2d 18 78

EDISON'S LABORATORY,

TIME SHEET,

For Theo Whitney

Week ending Nov 2d

	Lamp Block	Pressing Carbon	Work Bench	Sawing Fuses							
Saturday,											
Monday,	9		5								
Tuesday,											
Wednesday,			7			1					
Thursday,			7	½							
Friday,			5.								
Total.											

Menlo Park, N. J., Nov 18th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Cruikshank

Week ending Nov 24th

	Mann Bentley	Work	Advice								
Saturday,	10	4									
Sun	9										
Monday,	10										
Tuesday,	10										
Wednesday,	10										
Thursday,	~~10~~	~~10~~	10								
Friday,	10										
Total.	59	14	10								73

Menlo Park, N. J., Nov 21 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Batchelor

Week ending Nov 27th

	Wm Stop	Work									
Saturday,	10	3									
	10	4									
Monday,	10	5									
Tuesday,	10	8									
Wednesday,	10	2									
Thursday,	10	5									
Friday,	10	3									
Total.	70										

Menlo Park, N. J., Nov. 22d 1878

EDISON'S LABORATORY,

TIME SHEET,

For C. Campbell

Week ending Nov. 24th

	Shop									
Saturday,	10									
Monday,	10									
Tuesday,	10									
Wednesday,	10									
Thursday,	10									
Friday,	10									
Total.										

Menlo Park, N. J., Nov. 22d 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Nov. 24th

Saturday,	7	6	—								
Monday,				11							
Tuesday,	8½	6	5								
Wednesday,	6	2	1	5							
Thursday,		8		16							
Friday,	7	5		2							
Total.											

Menlo Park, N. J., Nov. 22nd 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm Carman

Week ending Nov. 27th

Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

Menlo Park, N. J., Nov. 15th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Dean

Week ending Nov 27th

Saturday,	13									13	
Monday,	7									7	
Tuesday,	10									10	
Wednesday,	10									10	
Thursday,	9									9	
Friday,	10									10	
Total.										59	
										55	
										14	
										19	

Menlo Park, N. J., Nov 22d 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. P. Edison

Week ending Nov 29th 78

	New Revenue								
Saturday,									
Monday,									
Tuesday,	12								
Wednesday,	11								
Thursday,	12								
Friday,	10								
Total.									

Menlo Park, N. J., Nov. 22d 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Nov. 29th

	Electric Light	Dynamo Electric Machine	Making Boiler	Putting into Boiler						
Saturday,		9								9
Monday,	2	8								10
Tuesday,	4	6								10
Wednesday,	3	4	5							12
Thursday,	6		3							9
Friday,	8			2						10
Total.	22	27	5	3						

Menlo Park, N. J., Nov. 22 1878

EDISON'S LABORATORY,

TIME SHEET,

For Mist. Pace

Week ending Nov. 29th

Saturday,	10											
Sunday	8											
Monday,	12		2									
Tuesday,	12	2										
Wednesday,	8	4	2									
Thursday,	2		2									
Friday,	6	6										
Total.	50	16	6									

Menlo Park, N. J. Nov 22d 1878

EDISON'S LABORATORY,

TIME SHEET,

For S L Griffin

Week ending Nov 29th

Saturday,												
Monday,												
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.												

Attending Office

S L Griffin

Menlo Park, N.J., Nov. 22d 1878

EDISON'S LABORATORY,

TIME SHEET.

For S. Stone

Week ending Nov. 27th

	S. Stokes	J. Kruesi	Chas. Long	H. Bell	Johnson							
Saturday,	13											13
Monday,	10											10
Tuesday,	10											10
Wednesday,		6	4.									10
Thursday,			3.	6								9.
Friday,				x6	4.							10
Total.												62.

Menlo Park, N. J., Nov. 22d 1878

EDISON'S LABORATORY,

TIME SHEET.

For J. Flood

Week ending Nov. 27th

	Geo. Barker for Chas. Bunnell	Geo. Barker for Sam'l Insull	Geo. Barker for Jos. Freeman	Geo. Barker for Jos. Freeman	Geo. Barker for Chas. Bunnell	Geo. Barker for Jos. Freeman						
Saturday,	3	4	3	3								13
Monday,		8	2									10
Tuesday,		3			7							10
Wednesday,	4	5		1								10
Thursday,				9								9
Friday,						10						10
Total.	7	20	5	13	7	10						62

13
13
169
13
13
169

Menlo Park, N. J., Nov. 28 1888

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Jackson

Week ending Nov. 29th

	10 Feet Light Sprinkler Machine									
Saturday,	13									13
Monday,	10½									10½
Tuesday,		10								10
Wednesday,		10								10
Thursday,	10									10
Friday,	10									10
Total.	43½	20								63½

43
20
515
1548
7525

Menlo Park, N. J., Nov. 25th 1888

EDISON'S LABORATORY,

TIME SHEET,

For J. H. Knight

Week ending Nov. 24th

	Mahogany Bracket
Saturday,	
Monday,	1/4
Tuesday,	5
Wednesday,	10 1/2
Thursday,	9 1/4
Friday,	10 1/4
Total.	35 1/4

1

Menlo Park, N. J., Nov. 22d 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. K. Knight

Week ending Nov 29th

	Carbon Filament & Carbonizing										
Saturday,	9										
Monday,	8										
Tuesday,	11										
Wednesday,	9										
Thursday,	6										
Friday,	9										
Total.											

Menlo Park, N. J., Nov. 22d 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Kruesi

Week ending Nov 29th

	Electric Light	Main Building	Gas Burners & Engines	Gas Reducers							
Saturday,	8	2	1								
	8										
Monday,	8	4	2	2							
Tuesday,	1	2	10								
Wednesday,	8	3	2								
Thursday,	8	4	1	1							
Friday,	3	3	8								
Total.	36	17	24	3							

Menlo Park, N. J., Nov 22 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos Sagar

Week ending Nov 24 78

	Making pen & repairing main accumulators	Making pen & repairing large accumulators & [illegible]	Making pen & repairing [illegible]	Making & repairing Carbon magnets & [illegible]								
Saturday,	7	6										13
Monday,		8	1									9
Tuesday,	5			5								10
Wednesday,	7											7
Thursday,	5			2								7
Friday,	1			1	8							10
Total.	25	14	1	8	8							56

Menlo Park, N. J., Nov 22 1878

EDISON'S LABORATORY,

TIME SHEET,

For Jerry M. McDillie

Week ending Nov 24 78

	Cleaning Work											
Saturday,	8											
Monday,	9											
Tuesday,	9											
Wednesday,	8½											
Thursday,												
Friday,	8											
Total.	42½											

Menlo Park, N. J., Nov. 25th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Marfitt

Week ending Nov. 29th

	Filament Lab	Bell Lab	Main Building	Dynamo Room	Water Tank							
Saturday,	7	4										
Sunday,			9									
Monday,			5	8								
Tuesday,				13								
Wednesday,				12								
Thursday,					10							
Friday,					10							
Total.	7	4	14	33	20							

78
15
330 1170

Menlo Park, N. J., Nov. 25th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. S. W.

Week ending Nov. 29th

	Bell Lab	Dynamo Room										
Saturday,	8	5										13
Sunday,												
Monday,	11½											11½
Tuesday,		17										17
Wednesday,		10										10
Thursday,		10										10
Friday,		9½										9½
Total.	19½	41½										61

Menlo Park, N. J., Nov 25 1878

EDISON'S LABORATORY,

TIME SHEET,

For Joseph Randolph

Week ending

	Assisting Lamp Shop											
Saturday,												
Monday,	10											
Tuesday,	10											
Wednesday,												
Thursday,												
Friday,	2											
Total.	15											

Discharged Pay Saturday

Menlo Park, N. J., Nov 23 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Randolph

Week ending Nov 24th

		Cleaning Laboratory	Washing Floor	Washing Floor	Cleaning Yard						
Saturday,	10	7	4								
Monday,	10	3	7								
Tuesday,	10	3	5	2							
Wednesday,	10	3	6		1						
Thursday,	10	6	4								
Friday,	10	6	3	1							
Total.	60	28	29	3							

Menlo Park, N. J., Nov. 28 1878

EDISON'S LABORATORY,

TIME SHEET,

For C. Swanson

Week ending Nov. 29th

	Experimenting	Shop work	Editing Bulletin	Magnets	Tests	Model	Designing Pump	Starting and Stopping			
Saturday,	10.		5.								
Monday,	10.	2.	5.								
Tuesday,	10			3.							
Wednesday,	10				3.						
Thursday,	10					3.					
Friday,	10						4.				
Total.	40	2	10	3	3	3	4.				

Menlo Park, N. J., Nov 28 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm Jones

Week ending Nov 29th

	Engineer										
Saturday,	10										
Monday,	10										
Tuesday,	10										
Wednesday,	10										
Thursday,	10										
Friday,	10										
Total.											

Menlo Park, N. J., [illegible] 18[illegible]

EDISON'S LABORATORY,

TIME SHEET,

For M. S. Andrus

Week ending [illegible]

	Machine Shop	Not [illegible]	Office
Saturday,	10		
"	9		
Monday,	10		
Tuesday,	10		
Wednesday,	8	2	5
Thursday,	10		
Friday,	10		
Total.	64	2	5

Menlo Park, N. J., 18

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending

	Electrical Lab	New Shop
Saturday,	10	
	10	2
Monday,	10	5
Tuesday,	10	5
Wednesday,	10	5
Thursday,	10	5
Friday,	10	5
Total.		

Menlo Park, N. J., Dec. 31st 1878

EDISON'S LABORATORY,

TIME SHEET,

For A. Campbell

Week ending Dec. 6th

	Shop	Office										
Saturday,	10											
Monday,	10											
Tuesday,	10											
Wednesday,		10										
Thursday,		10										
Friday,		10										
Total.												

Menlo Park, N. J., Dec. 31st 1878

EDISON'S LABORATORY,

TIME SHEET,

For G. Carman

Week ending Dec. 6th

	New York	Office	Laboratory	Elizabeth								
Saturday,	6	3										
Monday,	8	4										
Tuesday,	7	3	4									
Wednesday,	4	5	3	3								
Thursday,	8	4	3									
Friday,	8	2										
Total.												

Menlo Park, N. J., Nov. 30th 1878

EDISON'S LABORATORY,

TIME SHEET,

For W. Carman

Week ending Dec. 6th

Saturday,	1/3	Electric Light Co
Monday,	1/3	Main Building
Tuesday,		
Wednesday,	1/3	New Office
Thursday,		
Friday,		
Total.		

Menlo Park, N. J., Nov. 30th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Dean

Week ending Dec. 6th

	Chas Dean
Saturday,	10
Monday,	16
Tuesday,	13½
Wednesday,	13
Thursday,	13½
Friday,	10
Total.	76

76
25
380
152
1900

Menlo Park, N. J., Dec 30th 187

EDISON'S LABORATORY,

TIME SHEET,

For Chas. P. Edison

Week ending Dec. 6th

	Pick Patents											
Saturday,	8											
Monday,	12											
Tuesday,	13											
Wednesday,	10											
Thursday,	13											
Friday,	14											
Total.												

Menlo Park, N. J., Dec. 30th 187

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Dec. 6th

	Assisted Edison on Carbon Switching	Babcock	C. E. Bachelor Working up Lathe	Assisted in Pitch Switch	Working up Lathe						
Saturday,	9										9
Monday,		10									10
Tuesday,			10	2							12
Wednesday,	5		5		3						13
Thursday,			10								10
Friday,	5		5								10
Total.											

Menlo Park, N. J., Nov. 30th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. S. Pope

Week ending Dec. 1st

	Wm. Pope	J. Gray	Barbour	Edwards	Running Line						
Saturday,	3		7								
Sunday,		6		4							
Monday,		6	2	4							
Tuesday,			10	2							
Wednesday,			2		10						
Thursday,	3		6	4							
Friday,				10							
Total.	6	12	27	24	10						

Menlo Park, N. J., Nov 29th 1878

EDISON'S LABORATORY,

TIME SHEET,

For S. L. Griffin

Week ending Dec 6th

Saturday,	Attending Office										
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

S. L. Griffin

Menlo Park, N. J., Nov. 30th 1880

EDISON'S LABORATORY,

TIME SHEET,

For R. Jones

Week ending Dec. 6th

	Mr. C.	Mr. L.	Mr. Kruesi	Mr. Kinsley	Mr. Jones	Mr. Ott						
Saturday,	10											10
	~~10~~											~~10~~
Monday,	10											10
Tuesday,	3.	2.	5.			~~1~~						10
Wednesday,					1.	6						13.
Thursday,						14						14
Friday,						10						10
Total.												67

Menlo Park, N. J., Nov. 30th 1880

EDISON'S LABORATORY,

TIME SHEET,

For J. Wood

Week ending Dec. 6th

	Superintendent's absence in Boston Bookkeeping										
Saturday,	10									10	
Monday,		5								5	
Tuesday,		10								10	
Wednesday,		10								10	
Thursday,		13								13	
Friday,		10								10	
Total.	10	48								58	

Menlo Park, N. J., Dec. 30th 1878

EDISON'S LABORATORY,

TIME SHEET,

For G. Jackson

Week ending Dec. 1st

	G. Jackson Bamboo	Bamboo Carbon Packing										
Saturday,	10											10
Sunday,	12½											12½
Monday,	13											13
Tuesday,	14											14
Wednesday,	10											10
Thursday,	14											14
Friday,	10											10
Total.												83½

Menlo Park, N. J., Nov 30th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Joseph Knight

Week ending Dec 6. 1878

	Making Carbon											
Saturday,	10	hr										
Monday,	10	hr										
Tuesday,	10	hr										
Wednesday,	10	hr										
Thursday,	10	hr										
Friday,	10	hr										
Total.	60	hr										

Menlo Park, N. J., Dec. 10th 18 7[illegible]

EDISON'S LABORATORY,

TIME SHEET,

For J. K. Knight

Week ending Dec. 6th

	Elec. Light Pol. Sh.										
Saturday,	7										
Monday,	9										
Tuesday,	6										
Wednesday,	0										
Thursday,	0										
Friday,	14										
Total.											

Menlo Park, N. J., Dec. 27th 18 7[illegible]

EDISON'S LABORATORY,

TIME SHEET,

For Thos. Sagan

Week ending Dec. 6th

	Ass. Wire Fitter	Assistant Wire Fitter	Assistant Wire Fitter	Cabinet Maker	Electric Light	Mill Engine					
Saturday,	1	4	3	2							10
Monday,		3	6								9
Tuesday,		5	4								9
Wednesday,			7		3						10
Thursday,		9	4								13
Friday,		6				4					10
Total.	1	27	24	2	3	4					61

Menlo Park, N. J., Dec. 30th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Henry McJulie

Week ending Dec. 6th

	Henry
Saturday,	6
Monday,	8
Tuesday,	9
Wednesday,	9
Thursday,	9
Friday,	9
Total.	50

Menlo Park, N. J., Dec. 30th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Morgan

Week ending Dec. 6th

	Wire on Reel Stick	Cutting Glass	Pasting Paper	Cut Mulberry	Painting	Fastening on Handle	Mass Building				
Saturday,	8	2									
Monday,			8	2							
Tuesday,				2	2	6					
Wednesday,	7						3				
Thursday,	9					1					
Friday,	10										
Total.	34	2	8	4	2	7	3				60

Menlo Park, N. J., Nov. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. S. Ott

Week ending Nov. 6th

	Ott		Kendall										
Saturday,	8	6											14
Monday,		2	5										7
Tuesday,		4	10										14
Wednesday,			13										13
Thursday,		10	5										15
Friday,		9											9
Total.	8	31	33										78

Menlo Park, N. J., Nov. 30th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Randolph

Week ending Nov. 6th

	Randolph	Kendall	Ott	Goodrong	Bergmann								
Saturday,	10	2	6	3									
Monday,	10	2	5	3									
Tuesday,	10	3	7	0									
Wednesday,	10	4	6										
Thursday,	10	1	8	0	4								
Friday,	10	5	4		1								
Total.	60												

J. Randolph

Menlo Park, N.J., Nov. 30th 1888

EDISON'S LABORATORY,

TIME SHEET,

For C. J. Roxbury

Week ending Dec. 6th

	[illegible]	Nile Hadley									
Saturday,	10										
Sunday	4										
Monday,	10										
Tuesday,	10										
Wednesday,	10										
Thursday,	10										
Friday,	10										
Total.											

Menlo Park, N. J., Nov. 30th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Cliff. Swanson

Week ending Dec. 6th

	Fearing Spencer	Wm. Kelly	Chas. Kelly	Harry Hurst	Boylan						
Saturday,	10.										
Monday,	10.										
Tuesday,	13.	3.									
Wednesday,	10										
Thursday,	13	6		10							
Friday,	10			8.							
Total.	66	9.		18.							

Menlo Park, N. J., Dec. 30th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm Sawes

Week ending Dec. 6th

	Engineer										
Saturday,											
Monday,	10	40									
Tuesday,	10	10									
Wednesday,	10	10									
Thursday,	10	10									
Friday,	10	10									
Total.											

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrus

Week ending Dec. 13th

	M. P. Andrus	Mach. Shop
Saturday,	10	1½
Sunday	9	
Monday,	10	
Tuesday,	10	
Wednesday,	15	
Thursday,	15	
Friday,	10	
Total.	79	1½

80½

Menlo Toy

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Batchelor

Week ending Dec. 13th

	Electric Light	Men Toys
Saturday,	8	4
	8	4
Monday,	12	3
Tuesday,	15	
Wednesday,	24	
Thursday,	26	
Friday,	12	
Total.		

Menlo Park, N. J., Dec. 6th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Alex. Campbell

Week ending Dec. 13th

	Regular Hours	Overtime											
Saturday,	5	5											
Monday,	10												
Tuesday,	10												
Wednesday,	13												
Thursday,	14												
Friday,	10												
Total.	65	5											

Menlo Park, N. J., Dec. 6th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Dec. 13th

	Regular Hours	Extra Time	Office										
Saturday,	10												10
Sunday		8	4										12
Monday,	6	10											16
Tuesday,	6	11											18
Wednesday,	8	8											16
Thursday,		5											5
Friday,	8	2											10
Total.													

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm Carman

Week ending Dec. 13th

Saturday,													
Monday,													
Tuesday,													
Wednesday,													
Thursday,													
Friday,													
Total.													

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Doan

Week ending Dec. 13th

	Wiping Floors												
Saturday,	10												
Monday,	7												
Tuesday,	10												
Wednesday,	13												
Thursday,	13												
Friday,	10												
Total.	63												

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. P. Edison

Week ending Dec. 13th

	Chas. P. Edison
Saturday,	10
Monday,	5
Tuesday,	11
Wednesday,	2
Thursday,	10
Friday,	9
Total.	71

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Flammer

Week ending Dec. 13th

	Lengthening wires, Fitting Electric Light	Tending to Boilers	Shop work	Lime Building					
Saturday,	9 3								13
Monday,	7	7							9
Tuesday,	10	13							13
Wednesday,	3	13		7					13
Thursday,		13	4	6					13
Friday,		10		10					10
Total.									

Menlo Park, N. J., Dec 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Ah. A. Force

Week ending Dec 13th

	Outdoors	Laboratory	Total
Saturday,	10		
Sunday		17	
Monday,		10	
Tuesday,	8	5	
Wednesday,		24	
Thursday,		16	
Friday,		10	
Total.			

Menlo Park, N. J., Dec 6 1878

EDISON'S LABORATORY,

TIME SHEET,

For S. L. Griffin

Week ending Dec 13. 78

Saturday,	Attending Office
Monday,	
Tuesday,	
Wednesday,	
Thursday,	
Friday,	
Total.	

S. L. Griffin

1

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For R. Hense

Week ending Dec. 13th

	Testing Lab.	Electric Light								
Saturday,	10									10
Sunday,	14									14
Monday,	8									8
Tuesday,	14									14
Wednesday,	18									18
Thursday,	10									10
Friday,		9								9
Total.	74	9								83

7

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Hood

Week ending Dec. 13th

	Mus. Building Piping Brass D.									
Saturday,	13									13
Sunday,	8									8
Monday,	10									10
Tuesday,	10									10
Wednesday,	10									10
Thursday,	10									10
Friday,	10									10
Total.	71									71

1

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For G. Jackson

Week ending Dec 13th

	Sub Tuesday	Sub Wednesday									
Saturday,	12½										12½
Monday,	7										7
Tuesday,	10										10
Wednesday,	6	4									10
Thursday,		10½									10½
Friday,	10										10
Total.											60

1

Menlo Park, N. J., Dec 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. H. Knight

Week ending Dec. 13th

	Monday Rebuilding	Tuesday Rebuilding									
Saturday,	10 hrs										
Monday,		10 hr									
Tuesday,		10 hr									
Wednesday,		10 hr									
Thursday,		10 hr									
Friday,		10 hr									
Total.		60 hr									

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. H. Knight

Week ending Dec. 13th

	Experiments with Electric Light											
Saturday,	6											
Monday,	8											
Tuesday,	9											
Wednesday,	9											
Thursday,	9											
Friday,	9											
Total.												

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Krutti

Week ending Dec. 13th

	Repairs Building											
Saturday,	10											
	10											
Monday,	12											
Tuesday,	13											
Wednesday,	11											
Thursday,	14											
Friday,	14											
Total.	84											

98

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos Logan

Week ending Dec. 13th

	Wiring building	Wiring Dynamo-Machines	Dynamo-Machines	Large Engine								
Saturday,			11									11
Monday,		7										7
Tuesday,		10										10
Wednesday,	10											10
Thursday,	10											10
Friday,	5	4	1									10
Total.	25	21	12									58

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Henry McIntire

Week ending Dec. 13th

	Dynamo Mach.											
Saturday,	8											
Monday,	9											
Tuesday,	9											
Wednesday,	9											
Thursday,	9											
Friday,	9											
Total.	53											

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET.

For Chas. Morfitt

Week ending Dec. 13th

	On Wireless Telegr.	Wm. Bergen	On Wireless Telegr.	Book								
Saturday,	10											
Monday,		8	3									
Tuesday,		8		5 1/4								
Wednesday,	10	4 1/2										
Thursday,	10											
Friday,	10											
Total.	40	21 1/2	3	4 1/2								69

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET.

For J. F. Ott

Week ending Dec. 13th

	Wm. Bergen		On Wireless Telegr.									
Saturday,	2	7										9
Monday,		3 1/2	3									6 1/2
Tuesday,			10									10
Wednesday,			9									9
Thursday,			9 1/2									9 1/2
Friday,			6 1/2									6 1/2
Total.												50 1/2

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Randolphe

Week ending Dec. 13th

		Sanning Solutions	Washing Laboratory	Cleaning Street Village
Saturday,	10 h	6	4	
Monday,	10 h	5	5	
Tuesday,	10 h	5	5	
Wednesday,	10 h	6	4	
Thursday,	10 h	5	3	4
Friday,	10 h	5	5	
Total.	60 h			

John Randolphe.

Menlo Park, N. J., Dec. 6th 1878

EDISON'S LABORATORY,

TIME SHEET,

For C. J. Roxbury

Week ending Dec 13th

	Work Washing	Work Washing	Sunday work	Washing in Machine Shop	Working in Machine Shop	Work in Machine Shop
Saturday,	h 10					
Monday,	h 10					
Tuesday,	h 10					
Wednesday,	h 10					
Thursday,	h 10					
Friday,	h 10					
Total.						

Menlo Park, N. J., Dec. 6th 1888

EDISON'S LABORATORY,

TIME SHEET,

For O. Swanson

Week ending Dec. 13th

	Francis J. Sugrue	Chas. J. Mack	Wm. J. Wheeler								
Saturday,	10.									10	
Monday,	10									10	
Tuesday,	13									13	
Wednesday,		13.								13	
Thursday,		13								13	
Friday,		13								13	
Total.										Hours 72	

Menlo Park, N. J., Dec 14th 1888

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrus

Week ending Dec. 20th

	John Sandberg	Arnold Wall									
Saturday,	15										
Sunday	9										
Monday,	15										
Tuesday,	15										
Wednesday,	15										
Thursday,	11	4									
Friday,	6	2									
Total.	86	8									94
											75
											141.5

Menlo Park, N. J., Dec. 18th 1888

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending Dec. 20th

	Chas Batchelor	Wm Phelps									
Saturday,		5									
	12										
Monday,	10	5									
Tuesday,	14										
Wednesday,	11										
Thursday,	14										
Friday,	14										
Total.											

Menlo Park, N. J., Dec. 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For A. Campbell

Week ending Dec. 20th

	[illegible]	[illegible]	[illegible]									
Saturday,	15											
Monday,	15											
Tuesday,	10	5										
Wednesday,	5	10										
Thursday,	5	6	4									
Friday,	10											
Total.	60	21	4									25

Menlo Park, N. J., Dec. 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Dec. 20th

	[illegible]	[illegible]	[illegible]									
Saturday,	6	4										
Sunday			10									
Monday,	8	2	3									
Tuesday,	6		6									
Wednesday,	9		11									
Thursday,	8		3									
Friday,	6		6									
Total.												

Menlo Park, N. J., Dec. 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Dean

Week ending Dec. 20th

	Edison Mining & Reduction	Morris & Co
Saturday,	10	
Monday,	10	
Tuesday,		8
Wednesday,		9
Thursday,	10	
Friday,	10	
Total.	40	17
	57	

Menlo Park, N. J., Dec. 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Dec. 20th

	Moving machinery	Clean Sunday
Saturday,	3	6
Sunday	5	
Monday,		10
Tuesday,		13
Wednesday,		14
Thursday,		10
Friday,		10
Total.		75

Menlo Park, N. J., Dec 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Mr Force

Week ending Dec. 20th

	Charge day									
Saturday,	13									
	10									
Monday,	10									
Tuesday,	18									
Wednesday,	20									
Thursday,	12									
Friday,	13									
Total.	92									

Menlo Park, N. J., Dec 13th 1878

EDISON'S LABORATORY,

TIME SHEET,

For S. L. Griffin

Week ending Dec 20

Saturday,	Attending office									
Monday,										
Tuesday,										
Wednesday,										
Thursday,										
Friday,										
Total.										

S. L. Griffin

Menlo Park, N. J., Dec. 11th 1878

EDISON'S LABORATORY,

TIME SHEET,

For R. Hanse

Week ending Dec. 20th

Saturday,	11										
Monday,	10										
Tuesday,											
Wednesday,											
Thursday,				5.							
Friday,				9							
Total.	20	5	21	14							60

Menlo Park, N. J., Dec. 11th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Hood

Week ending Dec. 20th

	Sam Pedrick	Shaplins									
Saturday,		10								10	
Sunday,		9								9	
Monday,		10								10	
Tuesday,		13								13	
Wednesday,		18								18	
Thursday,		13								13	
Friday,		10								10	
Total.											

Menlo Park, N. J., Dec 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For G. Jackson

Week ending Dec. 20th

	Electric Lamp	Improving Vocal Telegraph	Testing Gold & Platinum Bearing Ores								
Saturday,	8										8
Monday,		2	7								9
Tuesday,		13									13
Wednesday,		10									10
Thursday,		9	9								18
Friday,		8									8
Total.		42									68

Menlo Park, N. J., Dec 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. H. Wright

Week ending Dec. 20th

		Making Carbon Buttons									
Saturday,											
Monday,		10 hr									
Tuesday,		10 hr									
Wednesday,		10 hr									
Thursday,		10 hr									
Friday,		10 hr									
Total.		50 hr									

Menlo Park, N. J., Dec. 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. H. Wright

Week ending Dec. 20th

	Elect. light Experiments	Elect. light Experiments										
Saturday,	8											
Monday,	9											
Tuesday,	9											
Wednesday,	9											
Thursday,	9											
Friday,	9											
Total.												

Menlo Park, N. J., Dec. 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Kruesi

Week ending Dec. 20th

	Main Dr. Work	Electric Light	Pat Office									
Saturday,	6	3	1									
	4	4										
Monday,	10	2	1									
Tuesday,	10		3									
Wednesday,	10		3									
Thursday,	10		5									
Friday,	9		4									
Total.	59	7	19									85

Menlo Park, N. J., Dec. 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos. Logan

Week ending Dec. 20th

	Repairing Machine	Repairing Machine	Work in Shop							
Saturday,	3	5	2							10
Monday,		2	7							9
Tuesday,			13							13
Wednesday,			13							13
Thursday,			13							13
Friday,			10							10
Total.	3	7	58							68

Menlo Park, N. J., Dec. 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Henry McIntire

Week ending Dec. 20th

	Work in Shop									
Saturday,	4									
Monday,	10									
Tuesday,	9									
Wednesday,	9									
Thursday,	9									
Friday,	9									
Total.	50									

Menlo Park, N. J., Dec. 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Morfitt

Week ending Dec. 20th

	Wood Work	Help Shop	Main Building							
Saturday,	2	8	4½							
Sunday			13							
Monday,	7	3	2							
Tuesday,	10									
Wednesday,	10		2½							
Thursday,	10		5							
Friday,	10									
Total.	49	11	27							

Menlo Park, N. J., Dec. 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. F. Ott

Week ending Dec. 20th

Saturday,	10										10
Monday,		9									9
Tuesday,	1	10									10
Wednesday,	9	5									14
Thursday,	18										18
Friday,	6½										6½
Total.	43½										67½

Menlo Park, N. J., Dec. 14th 1888

EDISON'S LABORATORY,

TIME SHEET,

For J. Randolph

Week ending Dec. 20th

		Working	Cleaning
Saturday,	10	8	2
Monday,	10	8	2
Tuesday,	10	8	2
Wednesday,	10	8	2
Thursday,	10	8	2
Friday,	10	8	2
Total.	60		

Menlo Park, N. J., Dec. 14th 1888

EDISON'S LABORATORY,

TIME SHEET,

For A. J. Rosbury

Week ending Dec. 20th

		Testing in Machine Shop	Working in the Machine Shop	Testing in Machine Shop	Work in Machine Shop	Testing in Machine Shop	Testing in Machine Shop
Saturday,	10 h						
Sunday,	10 h						
Monday,	10 h						
Tuesday,	14 h						
Wednesday,	13 h						
Thursday,	10 h						
Friday,	10						
Total.							

97

Menlo Park, N. J., Dec. 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Alfr. Swanson

Week ending Dec. 20th

	Watch										
Night Saturday,	13.										
Night Sunday	13.										
Night Monday,	13.										
Night Tuesday,	13.										
Night Wednesday,	13.										
Night Thursday,	13.										
Night Friday,	13.										
Total.	91 Hours										

Menlo Park, N. J., Dec. 14th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm. Tans

Week ending Dec. 20th

	Attending Engine & Boiler										
Saturday,	10										
Monday,	10										
Tuesday,	10										
Wednesday,	13										
Thursday,	11										
Friday,	10										
Total.	64										

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET.

For R W Upton

Week ending Dec. 20th

	Electric Light										
Saturday,											
Monday,	12										
Tuesday,	12										
Wednesday,	12										
Thursday,	12										
Friday,	12										
Total.											

Menlo Park, N. J., Dec 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For M. P. Andrus

Week ending Dec. 21st

	Mark Andrus	Night work
Saturday,	9	10
Sun,	9	
Monday,	5½	10
Tuesday,	9	10
Wednesday,		
Thursday,	9	10
Friday,	5	5
Total.	20½	45

15 15
180 45
20½ 45
308 675
1068

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Batchelor

Week ending Dec. 21st

	Batchelor
Saturday,	8
Sunday,	11
Monday,	14
~~Tuesday,~~	~~14~~
Wednesday,	14
Thursday,	14
Friday,	14
Total.	

Menlo Park, N. J., Dec 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For C. Campbell

Week ending Dec 27th

	Office E.E.	Work Shop
Saturday,	10	4
Monday,	10	4
Tuesday,		8
Wednesday,		5
Thursday,	20	22
Friday,		
Total.		

Menlo Park, N. J., Dec 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Carman

Week ending Dec 27th

	Menlo Park	Laboratory
Saturday,	8	8
Monday,		
Tuesday,		
Wednesday,		
Thursday,	8	3
Friday,	8	2
Total.		

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm Carman

Week ending Dec. 21st

Saturday,												
Monday,												
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.												

Wm Carman

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Dean

Week ending Dec. 21st

	Cleaning Machine & Shop											
Saturday,	10											
Monday,	5											
Tuesday,	7											
Wednesday,	0											
Thursday,	7											
Friday,	10											
Total.	39											

35
195
115
1365

1878

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Flammer

Week ending Dec. 27th

	Machining	Assembling										
Saturday,	9											12
Sunday,	2											
Monday,		10										10
Tuesday,		10										10
Wednesday,												
Thursday,		10										10
Friday,		10										10
Total.												54

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Mr. J. Price

Week ending Dec 27th

	Electrical Work	Power Work										
Saturday,	10											
Sunday,	6	6										
Monday,	6	6										
Tuesday,												
Wednesday,	18											
Thursday,	18											
Friday,	12											
Total.	64	12										

Menlo Park, N. J., Dec 20 1878

EDISON'S LABORATORY,

TIME SHEET,

For S L Griffin

Week ending Dec 27

Saturday,												
Monday,												
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.												

Attending office

S L Griffin

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For R. Hense

Week ending Dec. 27th

	Machine Shop	Machine Shop	Experiment Shop								
Saturday,	10										10
Monday,		12									12
Tuesday,			10								10
Wednesday,											
Thursday,			10								
Friday,			10								10
Total.											52

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Hood

Week ending Dec. 27th

	New Building Shafting	[illegible] Well Pumps	Piping well Pump	[illegible]	
Saturday,	13				13
Sunday		12			12
Monday,		12			12
Tuesday,		9			9
Wednesday,					
Thursday,			8	4	12
Friday,	5	5			10
Total.	18	38	8	4	68

27
126
36 9
495

48
32 0
9 3
1165
495 | 1870

470
136
1836

Menlo Park, N. J. Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Geo. Jackson

Week ending Dec. 27th

	Electric Light	Test Machine to Driving Magnets	Dyn. Edison [illegible]	
Saturday,	7	5		12
Monday,		7		7
Tuesday,			10	10
Wednesday,				
Thursday,		9½		9½
Friday,		9½		9½
Total.				48

35
240
144
1680

Menlo Park, N. J., Dec. 20th 1888

EDISON'S LABORATORY,

TIME SHEET,

For J. H. Knight

Week ending Dec. 21th

	Making carbon Buttons										
Saturday,	10 h										
Monday,	10 h										
Tuesday,	10 h										
Wednesday,	Holiday										
Thursday,	10 h										
Friday,	10 h										
Total.	50 h										

Menlo Park, N. J., Dec. 20th 1888

EDISON'S LABORATORY,

TIME SHEET,

For J. K. Knight

Week ending Dec. 21th

	Work light bulbs										
Saturday,	9										
Monday,	9										
Tuesday,	6										
Wednesday,	–										
Thursday,	24										
Friday,	12										
Total.											

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J Krudde

Week ending Dec 27th

	[illegible]	[illegible]	[illegible]									
Saturday,	2	8	1									
	5	4	1									
Monday,	3	6	4									
Tuesday,		5	5									
Wednesday,		1										
Thursday,	5	6	2									
Friday,	4	4	3									
Total.	19	34	16									

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos Logan

Week ending Dec. 27th

	[illegible]	[illegible]	[illegible]									
Saturday,	13											13
Monday,	7	2										9
Tuesday,	5											5
Wednesday,												
Thursday,	9	1	2									12
Friday,	10											10
Total.	44	3	2									49

Menlo Park, N. J., _____ 18

EDISON'S LABORATORY,

TIME SHEET,

For Hugo K (Edward Poole)

Week ending No

Saturday,	10										
Monday,	10										
Tuesday,	10										
Wednesday,	X										
Thursday,	10										
Friday,	5										
Total.	35										

Menlo Park, N. J., Dec. 20th 1888

EDISON'S LABORATORY,

TIME SHEET,

For H. M. McDistric

Week ending Dec. 24th

Saturday,	1										
Monday,	1										
Tuesday,											
Wednesday,	0										
Thursday,	0										
Friday,	2										
Total.	4										

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Moffitt

Week ending Dec. 25th

	Main Building	Wood Shop	Building Cleaning								
Saturday,	4	10									
Monday,	4½	10									
Tuesday,			8								
Wednesday,											
Thursday,	4		10								
Friday,	3	5	5								
Total.	15½	25	25								

65
15
65
3
107½

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. F. Ott

Week ending Dec. 25th

			Electric Clock	Electric Wire	Mon Phone	Telephone						
Saturday,			6	3	4							13½
Monday,				7½								7½
Tuesday,						10						10
Wednesday,												
Thursday,												8½
Friday,				10								10½
Total.												49½

3
295
147½
177½
177½

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J Randolph

Week ending Dec. 25th

		Working in Office										
Saturday,	10	10										
Monday,	10	10										
Tuesday,	10	10										
Wednesday,	Christmas & Holiday											
Thursday,	10	10										
Friday,	10	10										
Total.	50	50										

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For A. J. Rockey

Week ending Dec. 24th

	Working in Office	Men Bed Inc	Cleaning Laboratory	Repairs House								
Saturday,	10											
Monday,	10											
Tuesday,	10											
Wednesday,												
Thursday,	10											
Friday,	10											
Total.												

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For O. Swanson

Week ending Dec. 27th

	Night Watch									
Saturday,	13									
Sunday	13									
Monday,	13									
Tuesday,	13									
Wednesday,	13									
Thursday,	13									
Friday,	13									
Total.	91 hours									

Menlo Park, N. J., Dec. 20th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Wm Hess

Week ending Dec. 27th

	Engineering									
Saturday,	10		Friday	4						
	10									
Monday,	12									
Tuesday,	8									
Wednesday,										
Thursday,	9 1/2									
Friday,	10									
Total.	63 1/4									

Menlo Park, N. J., _____ 18

EDISON'S LABORATORY,

TIME SHEET,

For Upton

Week ending Dec 27

	Electric Light										
Saturday,	12										
Monday,	12										
Tuesday,	12										
Wednesday,											
Thursday,	12										
Friday,	12										
Total.											

Menlo Park, N. J., (Dec 28) 1878

EDISON'S LABORATORY,

TIME SHEET,

For M P Andrews

Week ending Jan. 3, 1879

	Pendleton Notes	Pendleton Notes
Saturday,	10	
Sunday		7
Monday,		13
Tuesday,		13
Wednesday,		0
Thursday,		12
Friday,		10
Total.	10	55

Menlo Park, N. J., Dec 28th 1878

EDISON'S LABORATORY,

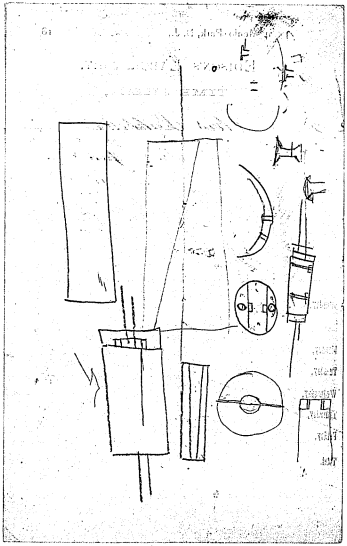
TIME SHEET,

For Chas Batchelor

Week ending Jan 3d

	Carbon Spill
Saturday,	10
Sunday	12
Monday,	14
Tuesday,	14
Wednesday,	14
Thursday,	14
Friday,	14
Total.	

[ON BACK OF PRECEDING PAGE]



Menlo Park, N. J., _____ 18

EDISON'S LABORATORY,

TIME SHEET,

For Wm Carman

Week ending Jan 30 1878

Saturday,												
Monday,												
Tuesday,												
Wednesday,												
Thursday,												
Friday,												
Total.												

Allowance Office

Menlo Park, N. J., Dec 29/77 1878

EDISON'S LABORATORY,

TIME SHEET,

For C. Campbell

Week ending Jan 30

	New Shop Labor Chg											
Saturday,	9	5										
Monday,		10										
Tuesday,		9										
Wednesday,												
Thursday,		5										
Friday,		10										
Total.	9	39										

Menlo Park, N. J., Dec. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Dean

Week ending Jan. 3d

Saturday,	12											
Sun												
Monday,	7											
Tuesday,	1											
Wednesday,	18											
Thursday,	35											
Friday,	40											
	54											
Total.	650											

Menlo Park, N. J., Dec. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas Flammer

Week ending Jan 3d

	Planing Work in our building	Work about Electric light	Electric light	Electric light							
Saturday,	9										9
Sun		2									2
Monday,		8	5								13
Tuesday, day & night			7	12							19
Wednesday, night				12							12
Thursday,											
Friday,											10
Total.											

Menlo Park, N. J., Dec 25 1879

EDISON'S LABORATORY,

TIME SHEET,

For S L Griffin

Week ending Jany 3d

Saturday,											
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

Attending office

S L Griffin

Menlo Park, N. J., Dec 28th 1878

EDISON'S LABORATORY,

TIME SHEET,

For R. Hense

Week ending Jan 3d

	Extra Work										
Saturday,	10										
Monday,											
Tuesday,											
Wednesday,											
Thursday,											
Friday,											
Total.											

Menlo Park, N. J., Dec. 29th 1878

EDISON'S LABORATORY,

TIME SHEET.

For J. Wood

Week ending Jan. 3d

	Time working for Edison	Time working for Edison & Gower								
Saturday,	10									10
Sunday C	8									8
Monday,		14								14
Tuesday,		10								10
Wednesday,		9								9
Thursday,		13								13
Friday,		10								10
Total.	18	56								74

18
56
74
36
37
.995

Menlo Park, N. J., Dec. 29th 1878

EDISON'S LABORATORY,

TIME SHEET.

For Geo. Jackson

Week ending Jan 3d

	Time for Edison	Time for Edison & Repair	Time for Edison & Gower	Time for Edison & Sophia Lang	Time for Edison & Reeder							
Saturday,	10											10
Monday,		14										14
Tuesday,	9½											9½
Wednesday,												
Thursday,	7		5									12
Friday,			10									10
Total.	26½	14	15									55½

.50

26
35
13.5
39.5
1.25
14.25

35
20
16.5
18
19.43

Menlo Park, N. J., ... 18

EDISON'S LABORATORY,

TIME SHEET,

For P. Kinney

Week ending Jan 3-78

	Andy Dufine									
Saturday,	1									
Monday,	1									
Tuesday,	1									
Wednesday,										
Thursday,	1									
Friday,	1									
Total.	5 days at 3.—									15.00

Balance on last week 2.00

17.00

Menlo Park, N. J., Dec. 27th 18 78

EDISON'S LABORATORY,

TIME SHEET,

For Jas. H. Knight

Week ending Jan 3d

	Making carbon Buttons									
Saturday,	10 hr									
Monday,	10 hr									
Tuesday,	10 hr									
Wednesday,	New year									
Thursday,	10 hr									
Friday,	10 hr									
Total.	50 hr									

Menlo Park, N. J., Dec. 24th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. H. Knight

Week ending Jan 5th

	Electrical Exhibit
Saturday,	5
Sunday,	12
Monday,	12
Tuesday,	12
Wednesday,	5
Thursday,	13
Friday,	11
Total.	

Menlo Park, N. J., Jan Dec 24th 1878

EDISON'S LABORATORY,

TIME SHEET,

For J. Krusi

Week ending Jan 5th

Saturday,	10
	15
Monday,	14
Tuesday,	10
Wednesday,	9
Thursday,	14
Friday,	14
Total.	

Menlo Park, N. J., Dec. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Thos Sagan

Week ending Jan. 30

	Chas Mundy Laboratory	Chas Mundy Shop	Michael Kerr Laboratory	Chas Mundy Laboratory	Carbon machine	Electric light						
Saturday,	10											10
Monday,		13										13
Tuesday,			9	2								10
Wednesday,												
Thursday,			4		3							7
Friday,		10										10
Total.	10	23	12	2	3							50

Menlo Park, N. J., 18

EDISON'S LABORATORY,

TIME SHEET,

For Edmund Wack

Week ending Jan 3. 1879.

	Chas M Mundy									
Saturday,	10									
Monday,	10									
Tuesday,	10									
Wednesday,										
Thursday,										
Friday,										
Total.	30		—	3.75						

Menlo Park, N. J., Dec. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For H. Allen Intire

Week ending Jan 3d

	[illegible]										
Saturday,	6										
Sunday,											
Monday,	9										
Tuesday,	6										
Wednesday,	—										
Thursday,	5										
Friday,	5										
Total.	41										

Menlo Park, N. J., Dec. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Chas. Morgan

Week ending Jan 3d

	Wind Wire	In the House	Stain Backing	Nelly Bannan							
Saturday,	8	2									
Sunday,			9								
Monday,	10		3								
Tuesday,	10	2									
Wednesday,	9										
Thursday,	2			8							
Friday,				10							
Total.	39	4	12	18							73
											15
											965
											75
											1095

Menlo Park, N. J., Dec. 29th 1878

EDISON'S LABORATORY,

TIME SHEET.

For J. F. C.

Week ending Jan. 3d

	Hours	Overtime								
Saturday,	9									9
Monday,		12								12
Tuesday,		10								10
Wednesday,	9	22								
Thursday,										
Friday,										
Total.										

Menlo Park, N. J., Dec 27th 1878

EDISON'S LABORATORY,

TIME SHEET.

For John F. Randolph

Week ending Jan 3d 1879

	Laboratory	Work
Saturday,	10	
Monday,	10	
Tuesday,	10	
Wednesday,	Holiday	
Thursday,	10	
Friday,	10	
Total.	50	

JNR

Menlo Park, N. J., Dec. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For C. J. Boxbury

Week ending Jan 3d

	Cleaning Lab.	Cleaning Lab.	Cleaning Lab.	Cleaning Lab.							
Saturday,	10										
Monday,	10										
Tuesday,	10										
Wednesday,	10										
Thursday,	10										
Friday,	10										
Total.	60										

Menlo Park, N. J., Dec. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For A. Swansin

Week ending Jan 3d

	Night Watch										
Saturday,	13.										
	13.										
Monday,	13.										
Tuesday,	13										
Wednesday,	0										
Thursday,	0										
Friday,	13.										
Total.	65.										

Menlo Park, N. J., Dec. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Francis Upton

Week ending Jan. 3d

	Electric Light										
Saturday,	12										
Monday,	12										
Tuesday,	12										
Wednesday,	12										
Thursday,	12										
Friday,	12										
Total.	72										

Menlo Park, N. J., Dec. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For A. J. Boxberg

Week ending Jan 3d

	Machine work	Ordinary hand	Cleaning	The [illegible]						
Saturday,	10									
Monday,	10									
Tuesday,	10									
Wednesday,	10									
Thursday,	10									
Friday,	10									
Total.	60									

Menlo Park, N. J., Dec. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For A. Swansin

Week ending Jan 3d

	Night Watch									
Saturday,	13.									
Monday,	13.									
Tuesday,	13									
Wednesday,	13									
Thursday,	0									
Friday,	13.									
Total.	65.									

Menlo Park, N. J., Dec. 27th 1878

EDISON'S LABORATORY,

TIME SHEET,

For Francis Upton

Week ending Jan. 3d

	Electric Light									
Saturday,	12									
Monday,	12									
Tuesday,	12									
Wednesday,	12									
Thursday,	12									
Friday,	12									
Total.	72									

1878. Edison, T.A. - Unsolicited Inquiries (D-78-018)

This folder contains unsolicited correspondence requesting agencies for Edison's inventions, inquiring about the purchase or cost of his inventions, or asking for information about his inventions. A sample of approximately 10% has been selected.

B. W. Sturges
Feb 26

ans
Flow: address
Chas. A. Chase
Agent Phonograph Co
Talk here
Talk about
for information
Jan 7 1879

St. Joseph, Mo. Feb. 26, 1878.
Prof Edison.
Dear Sir.
I have just read a description of your "Phonograph," copied from the New York Sun. If you should decide to establish agencies for the sale of the instrument in each state, I would like the agency for Iowa. I think that I could give you satisfaction in the sale of them.
I hope to hear from you soon.
My address

io Des Moines, Iowa.
Yours Truly.

G. H. Lloyd.

WALTER A. WOOD, PRESIDENT & GEN'L SUP't
A. C. GEER, SECRETARY.
J. RUSSELL PARSONS, VICE PRESID't
WILLARD GAY, TREASURER.
J. M. ROSCBROOKS, ASST SUP't

WALTER A. WOOD
Mowing & Reaping Machine Co.

BRANCH OFFICES:
34 Liberty St. NEW YORK, P.O. Box 5305.
107 Taylor St. CHICAGO, Ills.
349 Market St. SAN FRANCISCO, Cal.
36 Worship St. LONDON, Eng.
J. F. Haynes & Co. ST. LOUIS, Mo.
Fuller, Johnson & Co. MADISON, Wis.

ENGINES & THRESHERS.
GENERAL OFFICE & MANUFACTORY:
HOOSICK FALLS, NEW YORK.

A. S. DEWITT, Agent.

Odessa, N.Y., Feb 28 1878

Prof Thomas A Edison
Dr Sir
in the New York daily Sun of Feb 22 I noticed a somewhat lengthy article in relation to an invention of yours called the Speaking Phonograph and I take the liberty of writing to you, to learn if the article is a newspaper invention or whether it is a fact. My object is partly curiosity and partly to enter into business relations with you if the article before mentioned is not a hoax. Hoping you will be so kind as to return me an answer at an early date I remain
Resply Yours
R A Bulkley
Odessa
NY

The article is Correct
Address business Communications to C A Cheever & Co etc etc

J. Pond - Phon

Dresden March 4. 1878.

Thomas A. Edison Esq.

Dear Sir,

At the suggestion of my nephew, Mr. George Bradley of Providence R.I. I write to solicit the agency of your phonograph for Austria & Hungary. I have, at the request of Mr. Gardiner G. Hubbard, established a Company for the introduction of Bell's Telephone into these Countries and I am therefore so situated with regard to my knowledge of the language and my connections that I could advance your interests perhaps better than any one else. I take it for granted that applications for patents have already been made in Germany and Austro-Hungary, as since the new patent law in the German Empire a patent will not be granted for any invention which has been described in any public print before the application has been made. In Austria the law is not quite so strict in this respect, as it specifies that the publication must not have previously been made "in that Country", regardless of what may have done elsewhere.

Mr. Bradley informs me that you have disposed of your interest in the foreign patents, but I solicit your influence in obtaining for me the agency for the Countries above named and beg to know the address of the parties now holding the patent right that I may make a direct application to them.

I am, Dear Sir,

Your Obt Svt.

J. Pond.

Bismarck platz 8.

Patents all right - obtained before publication = Address Theo Puchas Cauels & Bertle, 9 Rue de la Bourse Paris He has sole Control of Telephone & Phonograph — J. P.

Orig. the Co.
A. H. Johnson

OFFICE OF THE

Western Union Telegraph Company,

Albany N.Y. March 8 1878

T A Edison Esq

Dear Sir: I am to exhibit the Telephone on tuesday evening March 19th to the "Albany Institute" The Society is composed mainly of Literary and Scientific citizens of Albany

I propose to run one or two wires into their meeting room, it being near to some of our wires, and to make no charge for anything if it can be avoided.

Can an arrangement be made to exhibit your Phonograph, or the Singing Telephone at the same time, and on what terms,

Admission will be only to members of the Society

No admission fee

As the Society is composed of that class, who are most likely to hire or purchase Telephones and Phonographs, I think it will do us

OFFICE OF THE

Western Union Telegraph Company,

_____ 187.

no harm to exhibit these free if it can be done, I might get the Society to pay expenses, or if not large pay them myself. I do not think the exhibition before this Society numbering 50 to 75 would interfere with a public exhibition ~~&c~~ if it was desired to give one at a later date.

Please give me an early reply and oblig.

Yours Truly

J. H. Rugg

Manager W. U. Tel. Co.

BALTIMORE AND OHIO RAILROAD COMPANY,

TELEGRAPH DEPARTMENT.

OFFICE DIVISION OPERATOR.

Grafton W. Va. Mch 18 78

Thos Edison Esq
Dear Sir

Will you please send me a diagram of your Phonograph also of the Telephone will pay for any trouble you may be put to do this. Do you propose to put your telephone on the market if so how do you intend to dispose of them rent or sell & can you state at what figure would like to have the Agency for this state if not already disposed of an engine good references please advise soon & oblige

Yours Very Respy
M. A. Cline
Dl Opr

Refer to Western Union for my reference and to the Phonograph to Room 25 Fifth Ave NY for photo

Lancaster City. Pa.
March 20. 78

Prof. Edison

Dear Sir

I have seen an account in one of the daily papers of your "Air-phone", or rather that you had invented an instrument by that name. I owned like to know some thing about it and upon what terms one can be had. I am connected with an Oil Fire Companies here, and if the Airophone can do the which is claimed for it. I think it is the article for us.

I shall be happy to hear from you soon

Respectfully yours

Wm. L. Phillips M.D.
257 West King St
Lancaster, Pa.

To Prof. Edison - Electrician
U.S. Company, Broadway & Jay St
- N.Y. -
Not found

Rush. Penna. Mar. 22nd. 1878.

Prof. Thomas Edison,
Menlo Park. N.J.

Dear Sir:- Where and upon what terms can one of your Carbon Telephones be obtained to be used in connection with lectures on Sound and Electricity. Have you among your other many inventions any thing that would help illustrate either of those branches and at the same time be new and attractive to the public.

Please reply at your earliest convenience and oblige

Yours Truly
H. C. Baker,
Rush,
Susquehanna Co.
Penna.

Refer you to
Henry Bundy
Lewis Lloyd
Phelps

Atchison Kans. March 24-98

Prof. Edison
Menlo Park N.J.

Dear Sir: I have been using a Bell telephone for illustration in my lectures on Electricity and Magnetism, I have understood that the one invented by you talks loud enough for an audience to hear, that would be far preferable to Bells for my purpose and I would like very much to procure such an instrument. also your phonograph of which I have read several descriptions. If I can rent or purchase one please state price etc and I will remit

Yours Respectfully

Louis Favour

Refer to Western Gold & Stock Exp Co
my for the telephone

Niagara Falls
25th March 1878

Thomas A. Edison Esq

Sir

I wrote some little time ago respecting your Talking Phonograph — To which you kindly replied referring me to Mr Cheever Tribune Bldg NY. Having written him I received circular reply that they will not be ready for a few weeks —

I would like to get one
for Exhibition through
Canada now - previous
to their general intro-
-duction. I would
also like to get one
of your Musical
Telephones for the
same purpose -
The latter I would
rent or have the Com
~~Mission on~~ Recept -
I would also like to
make arrangements for
the introduction of
the Phonograph abroad
not Europe - in one
or two countries.
But first I would much
like to arrange for this
Canada programme
now - and you could
perhaps give instructions
to your agts to let me

Office
Sidney Barnett
Mar 24. 1874

have the above
I have written substan-
tially the same to Mr
Cheever

Yours truly
Sidney Barnett
Niagara Falls
N.Y.

I must again refer
you to Mr Cheever
who has sole charge of
the business
Yours
SB

Brooks & Gilbert,
Attorneys at Law,
Subway Building,
Cor. Superior & Water Sts.

J. Quincy Brooks,
Lucien L. Gilbert.

Cleveland, Ohio, March 26 1878

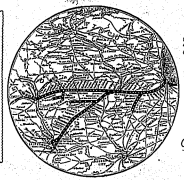
Prof. Thomas A. Edison
Menlo Park N. J.

Dear Sir:

Will you be so kind as to tell me whether you have yet perfected the Phonograph so as to make it a practical success and if so what is its price and when can it be procured. Please tell me also whether your form of telephone is an improvement over the Bell. We have a Bell instrument working for Rail Road purposes over a mile of wire. it is a perfect success. We are contemplating a ten mile line for another purpose and for that wish to get whichever instrument may seem best. An early reply will oblige

Yours truly
Lucien L. Gilbert.

MILES IN OPERATION.			
Chicago	to Davenport,	Iowa,	183
So. Englewood	to So. Chicago,	Illinois,	6
Bureau	to Peoria,	Illinois,	46
Davenport	to Missouri River,	Iowa,	317
Des Moines	to Indianola,	Iowa,	23
Somerset Junc.	to Winterset,	Iowa,	26
Wilton	to Knoxville,	Iowa,	128
Washington	to Leavenworth,	Kansas,	273
Edgerton Junc.	to Atchison,	Kansas,	30
	Total Miles,		1033



Chicago, Rock Island & Pacific Railroad Co.

OFFICE FREIGHT AND TICKET AGENT.

Iowa City Iowa Station,
March 26 1875

Thos. A. Edison Esq.
Menlo Park N.J.

Dear Sir;

What ~~from~~ I procure your approval (as shown in fig. 9 in the April No. of Scribners Monthly Magazine) for? I should like it to attach to our wire to communicate between this & the 1st Station west 8 miles. Please inform me if it will interfere with the working of the wire in telegraphing & oblige

Yours Resp.
John Winn Jr.
Iowa City Iowa
Appraiser Co.

Apply for Telephone to
Local Stock Telephone
Co
NY

Pa

104 Wall Street.
New York 26 March 1878.
(Rec 28th. P.C.)

Thos. A. Edison Esq.
Menlo Park
New Jersey.

Dear Sir,

We have been directed by Mr. Appleton, of the Telephone Co. to communicate with you direct, regarding the Agency of the "Phonograph" for China & the East.

We are extensively engaged in business with those Countries, and from our intimate Connection with the most influential officials of China and Japan, we feel quite confident that in a short time, we will set the example, and thereby overcome the superstition of the great masses of the people, to our mutual advantage. Should you feel so disposed, we will send our representative to you at any time, or when in the City we shall be most happy to receive a call in relation to this proposal.

Permit me to remain
Your obt. Servants
Olyphant & Co.

Baltimore & Ohio Railroad Company.

OFFICE, SUPERINTENDENT OF TELEGRAPH.

R. STEWART, Supt.

Baltimore March 27 1878

Thos A. Edison Esq

Dear Sir

If I come over to Newyork on Friday afternoon or Night when and where can I see you on Saturday I want to see your Telephone in Operation, Our Company want some put in use and I would like to get hold of the best

Yours Truly

R Stewart

Supt

OFFICE Rep. & Manufacturing and Dealer in

J. A. LANNERT,

Telegraph and Electrical Instruments

BATTERIES, SUPPLIES &c.

Cleveland, O. Mar 27 1878

Thos A Edison Esq

Dear Sir

Would like to act as your agent for your Telephone & Phonograph. Please state terms, rates retail prices &c.

I herewith send one of my books which I send all over the country by adding a supplement of the Phono &c & also by means of advertising I think I could make it to our individual interest to deal.

Send me Circular prices &c to

Yours Resp

J. A. Lannert

Send for circular Price

Hamilton College,
April, 16th 1878.

Dear Sir,

Will you kindly inform me if I can obtain a set of your carbon telephones for my Physical Cabinet?

Yours very truly,
Chester Huntington
Prof. of Natural Philosophy
Clinton
Oneida Co.
N.Y.

To
Mr Thomas A. Edison
Menlo Park

Refer to Mr
A.B. Scott
Supt. Speaking
Telephone Co. 842 Broadway
New York

COMMISSION.

HUGO WOLLHEIM.
234, 236 Broadway

New York, April 22nd 1878

Thos. A. Edison, Esq.

Dear Sir,

Reading in this morning's Herald the brief description of your valuable invention the phonograph, induces me to address these lines to you and to say, that I am preparing to go to Europe to reside & to represent some leading American Manufacturers. If you contemplate introducing your invention in Europe (Germany especially) I should like very much to form a connection with you. I feel that I can be of considerable service to you in that field.

Enclosing my card with reference, I should be obliged to you for an early reply and remain,

Dear Sir,

Yours very Respectfully
Hugo Wollheim

Dear Sir:
I already have an agent on the Continent. His name is Theo Puskas
La Phune Electrique 9 Rue de la Bourse
Paris, you can doubtless make some arrangement with him for Germany
Yr TAE

JOS. W. STOVER,

MANUFACTURERS' AGENT

Telegraphic and Electrical Supplies,

Of Every Description.

GENERAL AGENT
American Fire Alarm and Police Telegraph.
Western Electric Manufacturing Co., &c., &c.

~~217 Washington St.~~ 28 Congress St. Boston, May 7 1878

(BOSTON, MASS.)

T. A. Edison Esq —

If your "Phonograph" is not already monopolized I would like to manage its sale in New England. Can you do anything for me in this direction?

You have made yourself famous I hope you are also making yourself rich. "Put money in thy purse" Try and

drop me a line
if you can possibly
find time.

Yrs very truly
Jas. W. Stover

A party is advertising
the Phonograph, an
exhibition here, at
Horticultural Hall.

Ans'd June 16 78

Montreal, June 10th 1878

Thomas A. Edison Esq

Dear Sir

I have read with great care & with close attention a list of some of your many valuable inventions in the New York Herald of which many can be utilized in every day business & meet with ready sale. My object in writing is to see what arrangement I can make with you to introduce your many inventions to the public notice here & to have the exclusive agency for the sale of your goods. If, as I understand from the report in Saturdays Herald of an interview held by you with the reporter, that you intend introducing into N.Y. your grand Phonographic system I

predict for you a fortune as it will revolutionize the whole toy business throughout the whole world & drive all of the old style toys out of the market.
I should like to be the agent for your line of goods in Canada & feel confident that I can get up a company to manufacture them & pay you a royalty on your patents.
If you will favor me with a list of your patented goods & your idea of my proposition & the terms that we can agree upon I will make satisfactory arrangements with you that will prove pecuniarily successful to both of us. I can refer you to Hon J. J. Noad of Washington & Hon Robt P. Porter Corporation atty of New York.

Very truly yours

D. Abrahams
154 St James St
Montreal Ca

Toy mfr – in hands of Chas A Hanna Co
1193 Broad, the Marg & Phono Phono Co
Elec Rev Mfr Bldg, Washington, etc

JAMES E. POWERS. ANTONIO F. MACIAS.

J. E. Powers & Co.

COMMISSION MERCHANTS,

No. 4 CEDAR STREET,

Address Box 5671

New York June 22 1898

Mr Chas T Batchelor -

Menlo Park - N J.

- Dear Sir -

We have an Enquiry from a Spanish American Country - for an Estimate on a Phonograph - Would be pleased to hear from you if you are prepared to fill an order if so - at what price - Looking for an early reply -

We remain -

Very Truly Yours

J E Powers & Co

Huntington

We will have the agency & sale of your Megaphone. I think I can arrange with you for the sale of them and of your invention in Canada. Now can it be done? I am arranging now with Mr C. B. Harris for the very best of terms to sell your Megaphone and other inventions, that the public need. Awaiting by mail will oblige

Yours truly

B. Abrahams

Montreal Q.
June 27/08

154 St James St.

J. C. ROOT,

REAL ESTATE AND INSURANCE.

REAL ESTATE SOLD,
ABSTRACTS FURNISHED,
AND TAXES PAID.

No. 73 Main St.
UP STAIRS.

Lyons, Iowa, 6 July 1878

Prof Thos Edison
Menlow Park N J

Dear Sir — Have you a telephone instrument in the market for use? If so please send me Circular describing same and giving your terms for its sale or rental. — Have you any territory left for your "Phonograph"? If so, please state what it is and terms. — Have you an attachment that can be applied to a "Bell Telephone" so as to convey the sound so as to hear several feet away from the instrument If so its cost

J. C. ROOT,

REAL ESTATE AND INSURANCE.

REAL ESTATE SOLD,
ABSTRACTS FURNISHED,
AND TAXES PAID.

No. 73 Main St.
UP STAIRS.

Lyons, Iowa, 187

etc.

An early reply will very much oblige

Respfly

J C Root

Recd & acknowlg
Aug 7

LABORATORY.

DETROIT HIGH SCHOOL.

DETROIT MICH. Aug. 5 1878

Mr. T. A. Edison

My dear Sir:

Will you please tell me at what cost I can procure for purposes of experimental work in our laboratory a Micro-Tasimeter — a silk-carbon resistance disk (calibrated) and a Microphone.

An early reply will greatly oblige —

Yours Very Truly

E. W. Wetmore.

Western Elec Mfg Co

Office of the Elizabethtown Water Co.,

Elizabeth, N. J., Aug 28 1878

Mr T. A. Edison

Dear Sir

Can you make a pump with your Magnetic arrangement that will raise 200 gallons of water 25 feet high in 24 hours & how soon and what would be the price

Very Respy yours

Joseph Battin
per M

MARKT & CO.,
New York,
London, Hamburg.

Cable Address
"MARKT, NEW YORK.

NEW YORK, 139, 141 & 143 CENTRE STREET.

Oct 22d 1878

To _____

T. A. Edison Esq
Menlo Park, N.J.

Dear Sir

One of our constituents abroad inquires about the price of your phonograph of latest construction (the one with a horizontal plate on which the tin foil is spread), also for description and illustration of same.

Furthermore we should like to know whether your new hearing apparatus (for hard hearing people) has been manufactured for sale, and at what price it can be had.

You will oblige us by giving us information, and by quoting us price, if you manufacture these articles, or by referring us to the party who does. Being exporters, we must have bottom prices, if any.

Respectfully Yours
Markt & Co
Jth

Brockville
Canada
Oct 24/98

Arthur J Graham
Replied to Nov 2/98

Brockville
Ontario. Canada Oct 24 1898

for Telephone
apply Montreal Telephone Co
for phone - Phone Co 203 Mcley

Dear Sir,

I am desirous this winter of lecturing to this town and the neighborhood on recent discoveries in electricity, and particularly your own inventions the telephone, phonograph etc. I do not know whether your patents extend over Canada, and whether, if so, you have already

made any arrangement with regard to this district, but should it be available I should be glad to have your permission and to obtain from you the necessary instruments, upon such terms as you may be disposed to make.

I am ignorant whether I ought to address you personally in the matter, or who are your authorized agents, but I am sure, if the application is due elsewhere, you will excuse my troubling you, and place this letter in the proper hands.

I may perhaps add, that I am a young mathematical scholar, and hope to be able to do partial justice at least to your inventions, in speaking of them here. You will perhaps not consider it as either profane or impertinent if I venture to record my sincere admiration of them (although you must be fairly sick of hearing such words) -

Apologizing once more for troubling you personally

I am, Dear Sir
faithfully yours
Arthur J. Jackson

Boston Oct 30. 78

Thos A Edison Esq
Menlo Park
N J

Dear Sir

At what price could you construct a Harmonic engine capable of pumping two barrels of water daily? would it be liable to get out of order and could it be readily applied to a sewing machine?—

Respectfully yours
N Coolidge
Post office box 1127

No time to build it

Phila Nov 14 78
T. R. Whitcher
Ans'd Nov 15 78

McCormick
Phila Nov 14 78

Mr T. R. Whitcher

Dear Sir

Can you get one
very small, if so would
send me two or three
carbon buttons. The
kind goods use in your
carbon telephone.

I was told by Mr
G. H. Vanderpool Jr.
Agent of the Western Union
Tel. Co. to write to you

Mr. Owen Smith also told me you were the only person from whom I could obtain them.

Now if you can send me the prices and I will forward the money.

Yours &c.

Thomas D. Stone.

Cooperstown N.Y.
Dec 4th 1878.

Thomas A. Edison Esq
Dear Sir

"Scribner's Magazine for November makes mention of a harmonic engine, a tuning-fork electro magnet two feet 6 inches long, which will pump, if put to such use, three or four bbls of water a day at a cost of almost nothing, of your invention, & as it seems to be about what I want I beg to ask if the thing is simple & practical & if I could make use of it to raise the amount of water mentioned from my cellar to attic, easily?

Very Respectfully Yours
John Worthington

Cooperstown N.Y. Dec 4, 78

Corinth Mich
Dec 16 78

A C Bowman
Ans Dec 20 78

Corinth, Mich.
Dec. 16th. 1878

T. A. Edison, Esq,
Dear Sir,

What is the expense of the best Talking Phonograph that you can now produce, and what can the instrument be made to do before an audience? I would like to get a good Phonograph for the purpose of exhibiting if the price of them is not so high as to be beyond my reach.

I would also like to learn the price of your speaking Telephone & the Electric Light invention is now so far advanced that you are ready to sell the apparatus for it, I would like to learn the prices, and get your

descriptive circular of it.

Respectfully yours,

A. C. Bowman

1878. Electric Light - General (D-78-019)

Correspondence, some by Edison; memorandum, bill, circulars, clippings.

Not selected: duplicate copies of correspondence.

Sent here by Mr Tolle

Probably the Electric light will when we have established a new process for the economic lighting public buildings

Fort Pitterman Ky O
April 30. 1878

Thos A Edison Esq
Menlo Park
N.J.

Dear Sir

Will you do me the great favor to give me your opinion as to the use of Electricity as a substitute for Gas as it now used for lighting Public and private dwellings and Buildings. In other words do you think Electricity can be used as a ~~substitute~~ substitute for Gas. By answering this you will confer a favor

Very Respectfully
Your Obt Svt
E. D. Clowe
Post Quartermaster
Wyoming Territory

Ansonia Conn.
May 31st 1878

To Thomas Edison
Dear Sir.

A few weeks ago we met in Mr Ashley's room, and you were giving me some account of subdividing the Electric light, and if my memory serves me you said as soon as you got some material from Germany you wanted to come up to Ansonia to try it on some of our machines. I told you to come and promised that Mr Wallace would give you all the chance you could ask. When I got home then I told him ~~what~~ about our interview and

Ansonia Conn. 31st May
Charles Neville
Jun 3 June 1878

Reproduced for American Brass Co. Apr. 5, 1940

he said as I knew he would that you could have all the chance to try anything you wanted, and he should be happy to see you here, so come along the sooner the better would be glad to see you here tomorrow.

You will remember that you said that they were all on the wrong tract using carbon, hope you will be as successful in this direction as you have in so many others, it will be a blessing to the world, to be able to subdivide, Fuller makes a great noise about what he has got, but I do not think much of it, I will say that it worked well on two lights and Mr Wallace saw him, but a drawback to it is that if one slight chance to go out you have got to go to it and relight, besides there will be a question if he can see, the Jablochkoff candle, when he was here I said as much to him and he replied that his was entirely different from Jablochkoff, which I failed to see,

Wish you could say how soon we may look for you because we are want to see it divided even down to ten or twenty candle lights

Yours Respt
Charles Stowell.

(Box 747)

Address GEO. B. FIELD.
~~TYPE-BOX 4000,~~
New York City.

Saint Louis Aug 23 1878

T. A. Edison Esq

Dear Sir

Enclosed you will find one of the best descriptions of the Jablochkoff Electric light which I have seen. As the article may have escaped your observation I enclose it for your personal. It may give you some idea of value

Very truly yours
Geo B Field

[ENCLOSURE]

ELECTRIC LAMPS.

Magnificent Effects of the Finest Artificial Light Ever Before Seen.

Prof. Silliman Describes the Jablochkoff Candle and the New Gramme Machine.

[From the New York World.]

PARIS, July 27.—All the world—meaning Paris and her guests—have seen the magnificent illumination by the electrical lamps of Jablochkoff, unless, indeed, they have been so blinded by excess of light that they have seen nothing. A walk up the Avenue de l'Opera of a dark night from the Palais Royal to the Grand Opera House, or in the Orangeries of the Garden of the Tuileries, or along the shops of the Belle Jardiniere, or by the Arc de l'Etoile will dazzle the strongest eyes with the splendor and penetrating intensity of the great globes of ground glass which temper the insufferable solar glare of the unprotected light. I never see these beautiful globes without being reminded of that familiar class-room experiment of the chemical laboratory when phosphorus is burned in a glass sphere filled with oxygen, and the critical point arrives when the whole glowing space is filled with the burning vapor of the volatilized phosphorus, and the blaze of glory for the moment seems above the brightness of the sun. So in these electrical lamps the same impression is made, save that the seconds of duration for the phosphorus are extended to hours for the electricity. Objects viewed by the electrical light are seen in their natural colors, and such is the effect of refraction and reflection in producing a general diffusion of light that no sharp shadows are seen, as was the case when only a single focus of unblenched electrical light was employed. The lamps are set so high that there is no occasion to look *at* them except the fascination of the thing, while yet the effect is a novelty. The whole street, to the tops of the loftiest houses, is ablaze with a flood of beaming light which makes the streets seem like the scenes of some grand play at the opera.

Everybody says when this effect is first seen here, "Now is the dawn of a new era. Gramme and Jablochkoff are the real Prometheuses of mythology, and here is the heavenly radiance come down to earth. No more lurid gleams of murky gas to despoil our city treasuries and juggle the people with those thimble-rigging meters which nobody trusts! Farewell to coal and all the smutty and ill-smelling tribe of hydrocarbons! We have seized the heavenly radiance of Apollo with the thunderbolts of Jove, and can bid defiance to street mains and all the unsightly and unsavory concomitants of the gas-house." This is the talk one hears, and naturally enough; but science teaches us to keep cool (even in these hot days!) and we are advised to investigate the subject calmly before we sell our gas stock or take up the shares of the "Societe General D'Electricite Anonyme." And what is the result? I can not state it better than by quoting the words of M. Hyppolyte Fontaine, of Paris, the Engineer of the Gramme Company and author of an elaborate volume on electrical illumination. Speaking at the last meeting of the London Institution of Mechanical Engineers, M. Fontaine says: "The electric light does not interfere with gas-light nor with oil-light nor with candle-light. It will not revolutionize, as has often been averred, the question of lighting, destroying what is now in use and monopolizing every industrial application, domestic and public. The electric light has its place marked out for it under many circumstances; but, far from diminishing the consumption of the other lights, it will lead to their further development by demonstrating the advantages of a more powerful and more complete illumination." These words, coming from one whose position would naturally prompt him rather to exalt his office, express the simple truth as we understand it to-day. The whole thing is in its infancy. We are dealing with a wonderful power which is as yet but imperfectly in our control, and we have very much to learn about it. How recent its industrial application is will be better seen if we remember that in 1874 there were in France only four applications of it to industrial uses; in 1875, twelve; in 1876, eighty-five; in 1877, 350, and at present there are upwards of 500 applications of the light—amounting in intensity to more than 1,500,000 candles. This is not much, compared with the total illumination, public and private, of this great city, but it is a great deal when it is considered how recently the new light made its appearance, and how many difficulties attend the introduction of all new inventions. By virtue of its remarkable space-penetrating power it is specially adapted for various purposes where illuminations previously known were quite inadequate. With the aid of a lenticular projector it acquires a prodigious power of reaching into space and distinguishing objects many miles distant. By the naked light, unaided, spacious halls or extensive yards may be lighted up so that by night as by day the movements of merchandise or manufacturing operations on a large scale, or work in the open air, may be followed up; while by the use of ground glass and by properly constructed reflecting ceilings, as in cotton-spinning and other manufacturing establishments, a generally diffused and softened light may be obtained without sharp shadows, in which delicate operations may be as well conducted by night as by day.

Many questions are on the tongues of your readers, which I hope to answer before they are asked. For example: What is the source of this wonderful light? How is it produced and transmitted? What is its cost, as compared to gas, for example, for an equal intensity of illumination? What limits its production and economical application to human uses? And so on. It is important here clearly to indicate the distinction—which is a fundamental one—between the light of the Voltaic arc from a Voltaic battery excited in the usual way by the action of acids upon zinc, etc., and the electrical light we are now considering, and which is the result of magnetic induction, and which is simply the dynamical equivalent of mechanical force and depends not in any manner upon chemical action. Undoubtedly the earliest exhibitions of the electric light from the Voltaic battery were those made with the deflagrators of Dr. Hare by Professor Silliman at New Haven in 1822, and subsequently on a magnificent scale at Boston in 1830, when an arc of over five inches diameter was produced by the simultaneous immersion of 900 large-sized couples of Hare's deflagrator. But no means had then been devised for the regulation of the electrical light to render it constant, and although the writer as early as 1842 used this light successfully to produce daguerreotypes, the progress of invention had yet to make further use of the discoveries of science before electrical illumination was possible. We need not follow now this branch of the subject further. Suffice it to say that the electrical light which we are now concerned with uses no voltaic battery, consumes no acids or other chemical agents, is, in short, the author of its own existence, so to speak, being nothing more than the equivalent of a certain amount of motion—mechanical motion converted into molecular motion, in other words, into heat and light, through the medium of magnetism. Long did men grope in the dark seeking to grasp the hidden thread connecting the magnetic force with the other known modes of electrical manifestation. The oldest of the three sisters magnetism, electricity, voltaism, it waited the birth of the latter before Oersted could perform the simple experiment of the "conjunctive wire," and demonstrate in 1819 the conversion of voltaism into magnetism (electro-magnetism), and Ampere could show its relations to terrestrial magnetism, and for Sturgeon, of England, in 1826 to produce the first electro-magnet of soft iron by winding it with Oersted's conjunctive wire formed into a spiral—the "helix." And here the march of discovery halted until about 1830, when Henry showed us how to produce electro-magnets of a power not before dreamed of, and following up his discoveries simultaneously with Faraday, they, without comparison of notes, fell upon the fundamental facts of electro-magnetic induction and the phenomenon of secondary currents and the extra current with its splendid spark. At this moment, 1831, appears Joseph Saxton, of Philadelphia, who, being in London at the time and acquainted alike with the researches of Hare, Henry and Faraday, with his well-known mechanical skill constructed the first magneto-electric machine, which, by revolving an armature of soft iron wound with insulated copper wire before the poles of a permanet magnet obtained a constant succession of brilliant sparks and powerful shocks. This apparatus of Mr. Saxton was afterwards pirated by a man named Clarke, of London; and, curiously enough, another person of the same name—also an Englishman—twenty years before, or more, appropriated without acknowledgment the oxyhydrogen blow-pipe of Dr. Hare!

Here, so far as electrical illumination is concerned, the matter rested for many years. Inventors had all the material facts before them then as now, but so intent were they upon converting to some practical use the enormous magnetic power developed in masses of soft iron by the voltaic current—a very natural direction in which to follow up the suggestions of Henry's discoveries—that the less promising field of developing light from magnetism without the intermediation of chemical agency was quite overlooked and neglected. It is needless to say that the effort to obtain any valuable effects from the conversion of magnetism into mechanical motion was necessarily a failure, and in the present state of science no one would be justified in spending a moment of time or a dollar of money upon such a scheme. But given a definite source of mechanical force, required to evolve from it a certain equivalent of heat and light through the intervention of magnetism, and the problem offers entirely new features. Nay, more. Mechanical is thus converted into chemical force, and the electro depurition of metals is now conducted probably by the water-wheel or the steam engine, through the intervention of magneto-electric induction, and the old acid batteries of Volta are laid on the shelf. In this line of research we find, especially the names of Ladd, Wilde and Siemens in England, of Gramme in France, and of Wallace, Brush and Weston in America. Let the question of priority of invention, of superiority in form of construction and of conflicting claims among all these inventors rest for the moment, the grand and simple fact remains that, given any adequate source of mechanical motion and masses of soft iron properly mounted for revolution and armed with an adequate amount of insulative copper wire, we come from the simple multiplication itself of that inconsiderable amount of magnetic force which exists in almost every mass of soft iron developed by simple rotation of the bobbins of such an apparatus, to such a volume and intensity of magneto-electricity as can be limited only by the power of the mechanical motor at command and by the inductive capacity of the soft iron masses within the environment of the insulated wires of soft copper, provided the revolution of the arbor is accompanied with suitable interruptions in the direct flow of the electrical stream. Without the use of technical language—out of place in a newspaper—and of good diagrams, which would be of little value without technical description, we can hardly make the subject more easy of comprehension to the average reader. What is the result? Considering the Gramme machine, for example, for we are in Paris and the Gramme machine is unfortunately the only light-producing magneto-electric apparatus on exhibition. Weston has his machines here for electro-plating, doing excellent work, but Wallace is not here, nor Brush, of Cleveland, and so America remains literally in the dark, when she should have made a most conspicuous show of electrical illumination—only one more example of our too numerous shortcomings at this Exposition. But to return to the Gramme machine for our illustration. It is simple, powerful and very compact. It has no delicate parts, liable to derangement; it can be set up anywhere in a few hours without any foundation, and it can be worked for months without delay or interruption. Like any other machine of simple rotation, the wearing surface need lubrication. It occupies only a space of about four cubic feet, weighs about 400 pounds, of which the copper bobbin weighs about seventy pounds, has a diameter of seven inches and requires two and a half horse-power to drive it, with 850 turns per minute. Such a machine develops an average illuminating power of about 5,700 candles. Its intensity depends on various circumstances of position, etc., and may vary between 2,400 candles and 8,400 candles, according to the mode of placing the carbon points with reference to the photometer. This is the type of machine in use for industrial purposes, for practical daily work of illumination of shops, railways and streets. There is in the Exposition a form of the Gramme machine at work which yields three times more light for equal quantities of matter in action than any of those which have been before tried in France, England or elsewhere, on the authority of M. Fontaine. This machine weighs 441 pounds, costs £60 ($300,) and yields a light equal to 30,000 candles! Notwithstanding its low price and wonderful performance, this machine can not be commended for use, as the elements of durability are wanting in it. But of the form of the Gramme machine used in shops, it is affirmed that several hundred of these machines have been at work all the past winter, some of them without interruption, for underground operation, without costing a farthing for repair or maintenance except for lubrication. In the great foundry of Ducommen and in the shops of Sautter and Lemonnier these machines have been constantly at work for four years without giving the slightest trouble.

I quote from a carefully prepered statement of Messrs. Hellman, Ducommen and Steinlen the average cost per hour of four Gramme machines which have been run by them for four years. The charge for interest and depreciation is rated at 15 per cent on the cost of four Gramme machines and the motor to drive them, viz.:

	D.
Carbon-pencil's burned	8.26
Steam consumed	3.42
Attendance	2.85
Interest and depreciation	43.45
Total	63.08

In this case the moving power is only about a twentieth of the total cost, while three-fourths of the total is put to interest and depreciation. The parties whose results we have quoted estimate that the cost of of an equal amount of light from gas to that supplied to their establishment by these machines would be double. But the question of relative cost involves many considerations and must vary with circumstances, and especially with the cost of gas, which in this case is stated at 7 shillings 6 pence ($1 75) per 1,000 feet. In Paris the cost of gas is to the private consumer 30 centimes per meter cube. The cubic meter is in round numbers 30 cubic feet; consequently the cost of Paris gas in American currency is $2 50(say 10 francs) per 1,000. But the city pays only half that sum in consideration of the monopoly and of their having an equal share in the earnings of the company after a certain sum—say 10 per cent on the original capital has been paid to the stockholders.

I am informed by M. Alphonse Barlet, the engineer in charge of the Belgian railways, that he has installed four electral lanterns—with the old style of regulator—in the glare of station of the Bruxelles Railroad at a total cost of 20,000 francs (say $4,000) for one Gramme machine, one eight-horse-power steam-engine, eight regulators, two of each focus of light (*foyer*) and all the accessory conductors, etc. These four electrical lamps take the place of 120 gas-burners (*becs de gaz*), each consuming 150 liters per hour (four and half cubic feet). The light now obtained from these four electrical lamps M. Barlet estimates equals at least to what would be got from 500 such gas-burners as he used before. But for comparison of cost the statement is made between the 120 burners actually used before and the electrical costs with the general result, that in the long nights when the use of the illumination is for eight hours during about seven months of the year the electrical light is cheaper than the gas. But in the summer, with only two or three hours' use of the light, the electrical costs more than the gas light. The reason is obvious. The wages of the engineer and of the electrician are the same in both cases, and the interest on cost the same for the shorter as for the longer duration of the light. But on the whole the electricity was the cheaper and the light abundantly more. On the other hand the Northern Railway Station in Paris, which was illuminated by the electrical lanterns, has returned to the gas, and the Publications of the Paris Gas Company, which are before me, make it clear that in their judgment electricity can not compete with gas. I have paid some critical attention to the Paris gas usines, and shall take another occasion to say something in detail upon the gas industry here. It is at present sufficient to say that no more beautiful exhibit exists in the grounds of the present Exposition than that of the *Compagnie Parisienne d'Eclairage et de Chauffage par le Gaz.* And nowhere are the principles of science better combined with the practice of the art than they are in the various usines of this immense company.

It remains now to say a few words on the regulation of the electrical light—the candle of Jablochkoff and the new form of the Gramme machine with alternating currents adapted to the use of the candle of Jablochkoff.

I remember well the excitement occasioned by the first appearance of the electrical light in the well-known sunrise scene of Le Prophete, in the Grand Opera at Paris in 1846. The regulator then used was devised by M. Deleuil, a well-known instrument maker of Paris, but his form of the regulator was soon replaced by that of Dubosq, which is an apparatus found to-day in nearly every physical cabinet. In all forms of regulator before the Jablochkoff candle, the unequal march of the two carbons had to be provided for by a mechanism which advanced the positive carbon twice as rapidly as the negative, so that the focus of light remained (or was intended to remain) constant. All forms of the regulator were destined primarly for the voltaic arc, and the difficulty of manipulating two carbon pencils was common to all forms of the apparatus. Every experimentor who has tried the regulator knows only too well what these difficulties are. These difficulties have been in a great degree overcome by the ingenious device of the young Russian officer, M. Jablochkoff, who, by simply placing the two barbon pencils side by side, and insulating them by means of a thin plate of some refractory substance placed between them, has dispensed entirely with all forms of regulating apparatus. Those who have not seen this very neat little contrivance will understand it if they consider a common lead pencil reversed, i. e., its two wooden halves are the carbons and the central lead is the insulator, only this insulator completely separates the two carbons in all their length. This pencil, or candle, as it is well called, is held in a pince, or vise of of metal, the two jaws of which represent the two electrodes. At the upper end of the pencil is a narrow bridge of carbon which completes the circuit and like the tip on a match is inflamed by the first impulse of the electric current, thus immediately setting up the ignition. After that the arc itself is the conductor, and the light streams out with its well-known brilliancy. Four of these pencils, or candles, are mounted in each of the glass globes and so arranged that they are ignited successively as each one is consumed, the time for each being from one and a half to two hours, according to the tickness of the carbons. The light is not absolutely uniform. There are the well-known variations familiar to all who have experimented with the electrical light, and the violet rays which are so fatiguing to the eyes are often visible, and as will be seen by this statement, the duration of the light is limited at present to eight hours. This last limitation can probably be removed by mechanical improvements, which it is needless to dwell on here. But taken as it is with all its defects, and abating at discretion the too favorable statements of those who are interested parties, we must all agree, who have seen it here in Paris, that it is the wonder of the occasion; and that is saying much, for there are some other wonderful things here of which, perhaps, the great balloon is the freshest novelty. But the use of the Jablochkoff candle involved the necessity of a novel construction in the Gramme machine, and in all other magneto-electric machines of a constant current in one direction. The reason is obvious. The positive carbon is consumed twice as fast as the negative, and this would be fatal to the use of the famous "candle." This difficulty could be met only by producing an alternating current, and this has been successfully accomplished by M. Gramme in his new machine. This has been easily accomplished by the use of a small magnetic machine, supplemental to the illuminating engine, which acts as a commutator which effects at a velocity of 800 revolutions a reversal of polarity—alternation of plus and minus—64,000 times in a minute. By this simple device the Jablochkoff candle burns with entire uniformity.

At this moment there were three models of the Gramme machine with alternating currents. The first supports sixteen Jablochkoff candles of "100 bees"—*i. e.*, of an intensity each equal to 100 gas-burners—consuming five cubic feet of gas and yielding each 200 candles power. It may be safer to rate these burners at fifteen candles, which would be the same as saying each Jablochkoff globe equals the light of 15,000 candles. But this is not what is meant by the statement here. It seems that one such electrical lamp extinguishes 100 gas-burners; but in is claimed that the actual intensity of light provided is equal to much more than that, as M. Barlet states in his experience in the Bruxelles gare. This first model of the Gramme machine requires an engine of sixteen-horse power to drive it, and costs with its motor 10,000 francs, say $2,000; it weighs 650 kilogrammes, say 1,500 pounds, and makes 600 turns per minute. The whole weight of copper induction wire in action is 103 kilogrammes, about 125 pounds. The second machine is good for six Jablochkoff candles, requires six-horse power to drive it, and costs with its motor 5,000 francs, say $1,000. It revolves 700 times per minute and weighs 280 kilogrammes; the weight of copper wire in action is 40 kilogrammes. The third form of apparatus feeds four Jablochkoff candles of 100 bees each, requires four-horse power to drive it, and costs with its motor 3,000 francs, say $[illegible]. It revolves 800 times a minute, and weighs 180 kilogrammes, having 28 kilogrammes of copper wire in action. From this statement it appears that one-horse power is estimated for each candle of Jablochkoff, or each 100 gas-burners.

M. Gramme is now occupied on a fourth model which is to feed two electrical lamps and is much cheaper in both cost and driving power. The Holmes machine and the Gramme are alike in the relative position of the bobbins and the electro-magnets, both being alternating currents. By the simple substitution of a plate of plaster of Paris for the kaolin, at first used for the separation of the two carbons, M. Jablochkoff has, it is claimed, doubled the intensity of the illumination without any increase in the electro-motive force, and the cost of the apparatus has been reduced from 75 centime to 50 centimes per hour for each electrical candle—100 becs—motive power and depreciation of apparatus not included. I can not conclude this letter without reverting to the splendor of the electrical illumination of the new Avenue de l'Opera, as seen from the balcony of the Grande Opera. The effect is magnificent, and at this moment there exists nothing in this city of splendid effects to be compared to this magical scene. The surroundings of the Opera itself—the most majestic theater in the world, no doubt—add much to the effect. There are in view about thirty of these electrical lanterns—a part of those near the Opera House being of the same form (a cone) used by the Paris Gas Company, and the others being opaline globes, already described. The vista is about a third of a mile, and the effect incomparably fairer than any show of artificial illumination ever before seen. It is the light for all public places where a high degree of illumination is desired, as in large shops, cafes, public gardens, theaters, avenues, etc. But it will not displace gas for domestic use nor for common street lights. Great difficulties in the subdivision of the current are yet to be overcome. For the Avenue de l'Opera, I understand, there are three steam engines, and that at present 200 meters is as far as the current is conveyed. But let us not too confidently predict the future of what is possible in this direction. Of one thing we may be certain—the Parisian Gas Company are wide awake to the public interest in this thing, and will not be slow to add it to their present vast system of works whenever it appears that both their own and the public interest make it desirable they should do so. But in Paris the use of gas in houses is a matter of much less moment than in America, for the old prejudice excludes gas both in London and Paris to a great extent from domestic use. When, then, we learn that the share of profits paid over to the city from their one-half interest in the earnings above 10 per cent first paid to the Shareholders' Association last year, amounted to the round sum of 8,000,000 francs, we can readily understand that the city will act with the company in aggregating any valuable improvement in public illumination to their existing franchises, and that they can well afford to do so even at a pretty round price. The present capital of the gas company is, in shares, 84,000,000 francs, and in debentures 111,745,000 francs, or in the total nearly 200,000,000 francs, or $40,000,000. The modest little capital of 7,500,000 francs which the electrical company represents would be only as dust in the balance to such a huge monopoly. It is interesting to note that the amount paid last year by the City of Paris for gas was 7,827,205 francs—a little less than the dividends raised from the company. But it must be remembered that the tax paid into the city treasury by the gas company last year was 8,500,000 francs, and that the several water companies paid a little more than that, viz: 8,924,577 francs. By this shrewd arrangement the City of Paris annually gains net over all costs for gas more than 8,500,000 francs. When will the several gas companies in New York combine to pay the city as much for their monopoly? Probably not in the fragment remaining of this century.

B. SILLIMAN.

PIERRE LAURENT was lately guillotined at Bruliolss, France, for the murder of Villecourt. Until the last he appeared indifferent, and was sound asleep when the time for execution came. He arose to a sitting posture when awakened, and did not seem to understand. A cold sweat pervaded his face, and he could not dress without aid. As his limbs faltered, he was assisted to the guillotine, and he laid his head upon the block in partial unconsciousness.

Brookfield Center, Conn. Sept. 5. 1878.

My dear Mr. Griffin. —

On our way East, I agreed with Mr. Edison to arrange for him an exhibit of Mr. Wallace's splendid large magnets - electric machines at Ansonia if he would go up there with me the second Sunday in September. To this he assented. So on my return, I wrote to Mr. Wallace and he has made all the arrangements for us and is expecting us there Saturday night. I wrote to Mr. Edison

on Monday last letting him of these arrangements, and asking him if he would meet me there Saturday night. To this letter, I have received no answer yet, though I asked to have one. As I return to Philadelphia next week, this is the only available Sunday. Dr. Chandler of New York wants also to be present and I want to know in season to notify him. Mr. Wallace, I presume, would also like to know positively as soon as may be, I write therefore to you to ask you to put Edison on the right track, and telegraph me on the receipt of this that he will meet us as desired. I know he will have a good time and I want him to see a 7 inch arc and a 1/4 inch copper wire 12 feet long heated red hot. I desire to, to have him meet Dr. Chandler

there was a clock too in this letter I sent. I do I would like to know for the reason to, whether it was received.

I hope you all recognized how much better Mr. Edison looked after his trip. It did him a heap of good and I think he enjoyed it. I shall be at home before long to see how you all are. Regards to Beckett.

Cordially Yours
George A. Parker.

The train for Automa leaves the Grand Central Depot, N.Y., at 3 P.M., and has a through car for the Menagahale, N.Y. There is a 4.30 train, but then Automa passengers have to change at Bridgeport.

T. A. EDISON.

/

Menlo Park, N. J., Sept 6 1878

Prof Geo F Barker
Brookfield Centre Conn
Will meet Chandler at Grand Central Depot tomorrow P.M. Batchelor goes with me. Check all right

Edison.

16 Dt

11 25 am
9 Va

Sept 9]

Friday afternoon

Telegram just received. Glad Bachelor is going. I am coming to New York to-morrow & will meet you & Chandler at the Grand Central Depot at 3 P.M. train. Shall be at W.U. Tel. about 10

Yrs, G. F. B.

T. A. EDISON.

/

Menlo Park, N. J., Sept 13 1878

William Wallace
Ansonia Conn

Hurry up the Machine
I have struck a big
bonanza
T. A. Edison

10 DN

9 40
9 Va

BRASS AND COPPER ROLLING MILLS. ESTABLISHED 1848.

Office of Wallace & Sons.
Manufacturers of
Brass and Copper Goods

WAREHOUSE
83 CHAMBERS & 71 READE STS.
NEW YORK

Ansonia Conn Sept 13th 1878

T. A. Edison Esq
My dear Sir.

Send you this day one light intensity machine. If you want a quantity machine will send that also. Truly hope you will have struck a big bonanza. Please be sure the Brushes have good contact with commutator.

Yours Respty
Wm Wallace
Q

T. A. EDISON. 1 10 am

Menlo Park, N. J., Sept 14 1878

New York 14

T A Edison Mpark

Speed of machine twelve hundred
nine two belts.

Wm Wallace

Paid
-9

Phila Sept 16 78

Prof Barker

Not answd

3909 Locust St.
Philadelphia Sept. 16. 1878.

My dear Edison:—
I did not have time yesterday to get the things to you as I expected, so I enclose them today. There is in the first place a nice button of tellurium, which Dr. Genth gave me for you. He thinks you could get a tellurium ore which would pay well from the John Jay mine in Colorado. I enclose in the second place some crystalline plates of the graphitoid silicon, which you may find to work as well as the other form. I should like to know if they do work, as this form is made easier than the other.

The article in the Sun of this morning (reprinted in the Phila. Bulletin of the evening) suggests that you have made a big strike in electric lighting. Indeed according to the report gas stocks must go down now. Mr. Griffin said to me on Sunday that the Wallace machine had reached you. How do you like it? Should you want at any time to make experiments with a Gramme machine, mine is always at your service.

I have been asked to lecture again this winter in the Academy of Music. Should I do so, I would like to lecture on the Electric Light. Will you have your new things ready & can I show them at my lecture, say by January next?

Cordially yours
George F. Barker

Mr. Griffin tells me you have performed wonders. I hope you will be able to give me a copy of the lecture as I want to see what Mr. Tomlinson says.

Will you be good enough to write your autographs on the backs of three of your cartes-de-visite photographs and send them to me for my lady friends. Will?

I will try & see you before long.

F.

ADELPHI HOTEL,

W. H. McCAFFREY, Prop'r.

Saratoga Springs, N.Y. Sept. 16th 1878

Mr Edison,

Dear Sir,

I have today seen your invention for lighting by electricity described in the Sun, & have taken the liberty to write to Hon. Chas. A. Shaw, of Boston, urging him to call on you. He is to be in N.Y. Wednesday or Thursday of this week and I hope will make you a visit as you ought to know him. He is the best manager of patents I think, in the country, & to my knowledge has sold in less than six months over $750.000 worth of one patent

for each for parties he
represented. You will find
him a very agreeable and
intelligent gentleman, and
you may find the acquain-
tance mutually beneficial
should he conclude to visit
you.

Very truly &c
A. R. Williams

P.S.

You will perhaps remember
having met me in my visit with
Mr. Orton & others. I
send you a short sketch
happen to have of Mr. S.
Excuse great haste

A. R. W.

Hon
Gilbert Hon
Gilbert Williams
N. Y.

[ENCLOSURE]

[*From Frank Leslie's Paper*, 1867; *Workingman's Friend*, 1868; *Book of Self-Made Men*, 1871; *etc., etc.*]

Hon. Charles A. Shaw.

SOLICITOR OF PATENTS, MAYOR OF BIDDEFORD, ME., COMMISSIONER TO THE PARIS EXPOSITION, PRESIDENT OF THE CHARTER OAK SEWING MACHINE COMPANY, STATE MANAGER FOR CENTENNIAL, BANKER, ETC., ETC.

[The reader should not fail to note that most of the following was published several years ago.]

"CHARLES A. SHAW was born in the town of Sanford, York County, Maine, November 5, 1831, being now forty-four years of age, and the oldest of five children, all living. He is a grandson of Gen. Shaw, formerly a prominent politician and business man in the Eastern States, and a direct descendant of one of the most distinguished families among the settlers of New England, having come of excellent stock on both sides parentally. His father was a farmer in poor circumstances, and having a large family to support, he was from earliest boyhood put to hard labor on the farm, at thirteen being required to do a man's work. At fourteen he left home and commenced teaching, which he followed for a while with good success, and after attending one or two terms at an academy in his native county, fitted for college under the instruction of the late Hon. Henry Holmes, a distinguished scholar then residing in Maine, and with whom he subsequently studied law.

"We next find him in Boston, managing a newspaper with energy and ability, an employment which he left to learn the watch-makers', jewellers', and engravers' trade, soon becoming one of the most skilful workmen in the business, and being still one of the best engravers in the country, though never following the trade for a living. He also about the same time commenced business in the city where he now resides, as senior partner of a firm well known as one of the most enterprising and successful patent managing and manufacturing concerns in the country, and which has but recently been dissolved, after an existence of nearly fifteen years. During this period the radius of his business was continually extending and widening, so much so that even a brief descriptive outline would far exceed the limits of the present article; in fact, it would be much easier to tell what he was not engaged in than to rehearse the numerous enterprises which owed their success to his superior management.

"He is President of the Charter Oak Sewing Machine Company, with five hundred thousand dollars capital, a corporation employing a large number of hands and doing a very extensive business; also President of the No Plus Ultra Collar Company, with two hundred thousand dollars capital, besides being a director in several other corporations, in which he is largely interested. He is also managing agent and attorney of the Union Paper Collar Company, of New York, with a capital of three million dollars, and having under its control all of the legitimate paper collar manufacturers in the country, consisting of twenty different corporations, ranging in capital from one hundred thousand dollars to five hundred thousand dollars each. He is President of the Shaw & Clark Sewing Machine Company, with a capital of three hundred thousand dollars, Managing Director of the Magoon Heater Company, with a capital of two million dollars, and principal owner and confidential adviser of the leading Knitting Machine Company in the country. Besides all of this, he has under his direction and supervision over one hundred important suits at law and in equity in the United States Courts, enough, of itself, to overwhelm almost any man, to say nothing of such minor affairs as being proprietor of a patent-medicine business, attending to his real estate, including a first-class Hotel, with other matters too numerous to mention, which are either directly or indirectly in his charge. He is also a wealthy and well-known Banker, and very extensive dealer in notes, stocks, bonds, mortgages, and other securities. For many years, too, in addition to his other occupations, he has made the soliciting of patents and the managing of important patent suits a specialty, his success in this line being unquestionably greater than that of any other patent solicitor or counsellor in the country. Notwithstanding these few occupations, however, he finds time to contribute, under a well-known *nom de plume*, to some of the leading magazines and newspapers of the day, with ample leisure to spare for recreation!

"It will be seen that Mr. Shaw's business enterprises and engagements have long been of the most extensive and responsible character, and it is a source of much astonishment, even to those best acquainted with him, that he can transact so much business, with all its complicated relations, without apparent jar or difficulty. The remarkable faculty, however, possessed by but very few, but which he has in such perfection, of abstracting himself from the work immediately in hand, no matter how engrossing, and concentrating his energies upon the details of some entirely different subject, enables him to execute an amount of business entirely beyond the capacity of ordinary men.

"Mr. Shaw, after having been in the City Council for many years, both as Councilman and Alderman, is now serving his second term as Mayor of Biddeford, Me., being a most efficient officer and very popular with all parties. His inaugural addresses, extracts from which have been extensively copied by the press, exhibit a thorough knowledge of national as well as municipal affairs, and treat in a masterly manner the various subjects discussed. He has also represented his city in the Legislature of the State with marked ability, at once taking the lead of his party, which, by his shrewd management and the liberality of his course in relation to all matters of general interest, enabled him to hold the balance of power and secure the passage of many important measures which would otherwise have been lost. As a speaker he is above the average, being ready in debate, quick to analyze the subject at issue, logical and convincing in his arguments, and with experience would readily become distinguished as an orator. As a writer of both prose and poetry, he early acquired much distinction, but the absorbing cares of business have prevented the exercise of a faculty which he undoubtedly possesses in more than ordinary perfection. His treatises on the various manufactures and arts evince much talent, as do also his political and statistical writings, his paper on our frontier and sea-coast defences, considered in connection with the strength of the maritime nations of Europe and their policy towards the United States, being the most exhaustive and elaborate of any production on the subject, and replete with a vast amount of valuable statistical information, as well as exhibiting a thorough knowledge of history, political economy, and the fundamental principles of constitutional government.

"Mr. Shaw has twice been a candidate for State Treasurer, and at the last Congressional election in his district (Senator Fessenden's) was run for Member of Congress, having been nominated as the strongest and most available man who could be presented, running far ahead of his ticket, in the most hotly contested political fight ever made in this country, and where the odds at the start were immensely against him. During this campaign he bought one of the oldest papers in the State, for which he paid a large sum, removed it to his own city, and erected for it the most extensive and elaborate country printing establishment in the United States, at an expense of nearly fifty thousand dollars. He also started a Daily, building a telegraph line at his own expense to connect with the lines of the Associated Press, for the purpose of obtaining the latest and fullest news from all parts of the world. And here it may be proper to state that at various times he has been the sole proprietor of five different leading newspapers, one of which had a circulation of over one hundred thousand copies. He was Commissioner from Maine to the Paris Exposition, in which he took great interest, having been appointed by the unanimous request of all parties as peculiarly adapted for the position. He was also recently appointed Consul to Russia, one of the most important and lucrative foreign offices under government, but declined to accept the position on account of his numerous and pressing business engagements. At the same time he could have had the position of

[ENCLOSURE]

Commissioner of Patents, for which he is especially fitted, but for private reasons did not take it. He is proprietor of "Shaw's Opera House," a great theatre, which is one of the most beautiful and popular theatres in the country; and also of "Shaw's Block," one of the finest and most impressive business structures in the State. He is also Home Manager for the Centennial at Philadelphia, and by appointment having been made as the regent, of a large number of inventors and other exhibitors.

"Everything considered, he is one of the most remarkable men of the age. As a shrewd, forcible, and successful general business man, he has very few if any superiors. But it is not for what may be termed his business qualifications that he is wholly eminent. He possesses genius of a higher and less common order, in fact embodying a combination unlike unto any of the various orders of genius, but is usually found manifested in the formation of a very remarkable, and, in the successful coupling of all those that men of genius are critical for business pursuits, but the assertion is most emphatically disproved, in the present instance at hand.

"Mr. Shaw is pre-eminently a self-made man, whatever he has acquired or income having been solely by his unaided exertions, his life presenting one of the most striking illustrations of what can be accomplished by the proper exercise of integrity, and the proper application of the calm, indomitable force of will is, perhaps, the great striking peculiarity of his character. The great success of his rather enterprise nor business life, and its invincible determination and untiring perseverance, combined with his unsurpassed good, he has a very large share of that most attributive common sense; having sound discernment, a clear and rapid power of generalization, keen perception, with fertility and force of analysis, and a marvellous power of concentration of mind. These, coupled with his originality, incorruptible sentinity, integrity, and determination, are some of whatever he undertakes, form the principal constituents of his magnificent business character. He is a man of observation, nothing ever escaping his notice, with his perception of human nature is intuitive, and he reads men as readily as would an open book. He is what may be termed a natural leader, strongly impressing his character upon those around him, not swaying and controlling men by sheer force of will. His word is his bond, and possessing the power to do, he is never a moment late, and has no patience with those who are. One of the most noted features of his character, however, is his extreme benevolence, which has become almost proverbial. Possessing ample means, he constitutes with a generous hand to every good work, especially to the aid of those less favored than himself. In fact, generosity is so thoroughly a part of his nature that he sacrifices everything else to it, even his success, enjoying nothing which cannot be shared with others.

"In general department he is of most pleasing manner, modest and unassuming, frank, open hearted, dignity, dignified affectation, and making friends of all with whom he comes in contact. With the keenest appreciation of the Southern, Yankee, he combines the broad, genial liberality of the South and West, being every way what is generally termed a whole-souled fellow. He is of most pleasing and attractive appearance, and but possesses immense both power and energy, and is capable to an extraordinary degree of exerting that indescribable power or act of magnetic influence, by means of which one mind controls and sways another, and bends it to its will. Although in his stature he may claimed to be small, and even fritnilly, you know it to be but the rotund, generously great and, perhaps, overtasked mind—ever pop s ripple on the surface of the ocean of thought and feeling underneath beneath.

"Mr. Shaw has travelled much, has seen much both of his own country and of foreign lands, has conversed with the world, its pleasures, cares, troubles, and responsibilities have already for associated when in the prime of manhood of mature age. He acquaintance is very extensive and among his intimate friends he probably numbers as many percentage of men as any man living.

"In stature he is five feet eleven inches in height, of good form, and weighs about one hundred and seventy-five pounds. His hair and complexion are light, eyes gray, and his appearance is that of a delicate family, but all indicating great strength and force of character. In health he is strictly temperate, of robust health, with a strong constitution, possessing the greatest endurance, his principal danger is that of overtaxing his energies, both mind and body; but with a proper regard for health, being yet in the prime of manhood, he is capable of attaining the highest position in whatever pursuits he may devote his energies.

"Mr. Shaw has his office at present at No. 110 Tremont Street, Boston, having removed to this city for the better accommodation of inventors and his numerous clients in connection with the patent business."

[From the Boston Post.]

PERSONAL.—Hon. C. A. Shaw, of Maine, extensively known as one of the most successful Patent Solicitors and managers of patent suits in the country has removed to this city and opened an office at 110 Tremont Street. A long acquaintance with Mr. Shaw, and a knowledge of his qualifications, enable us to recommend to our readers who may have business connected with patents, or conducting patent suits, that they will find it decidedly for their interest to confide it to his charge.

[From the St. Louis Democrat.]

Western inventors desiring to obtain patents, or having patent suits to fight, can employ no better man than Hon. C. A. Shaw, of Boston, who has had an experience of over twenty years in every department of the patent business, and whose success is probably unequalled by that of any other Solicitor in the country.

[From the New Orleans Picayune.]

Hon. C. A. Shaw, who has successfully managed many of the most important patent suits in which Southerners have been interested, has opened an office in Boston as Solicitor of Patents and Counsellor in patent suits. Readers of the Picayune desiring to obtain patents, or having patent business of any kind, will find Mr. Shaw thoroughly competent and reliable.

[From the Philadelphia Age.]

We understand that Hon. C. A. Shaw has removed to Boston, where he will reside permanently, and opened an office there as Solicitor of Patents and Counsellor in patent causes, in which he stands at the head of the profession.

[ENCLOSURE]

[From the Boston Daily Journal.]

A VERY POOR INVENTOR!

We have just had the pleasure of examining an elegant watch and chain, valued at six hundred dollars, bought at the establishment of Bigelow, Kennard & Co., Washington street, presented by Hon. Charles A. Shaw, of 110 Tremont street, this city, to an inventor whom he regards as the very poorest yours under his supervision. The watch is of the finest manufacture, full diamond and richly chased, heavily cased in antique gold, after the style of Louis XIV, with chain and seal to match. On the back of the case is the following inscription:—

"PRESENTED TO

HON. CHARLES A. SHAW,

with the kindest regards of

A POOR INVENTOR."

Mr. Shaw is well known as one of the most successful patent solicitors and counsellors in patent suits in the country; and as the "poor inventor" who has taken his generous gift as a token of his gratitude, is understood to have made over half a million dollars through his superior management, it would be unnecessary to waste much sympathy in the matter, as nearly any of our readers would undoubtedly be pleased to become poor inventors of the same class and on the same terms.

[From the Washington Chronicle — the Government Organ.]

No practitioner at the Patent Office meets with more universal success than Hon. C. A. Shaw, of Boston, and inventors who entrust their interests to his hands can rest only upon a prompt and faithful performance of duty, and will have the satisfaction of knowing that everything will be accomplished in their favor which it is possible to attain.

[From the New York Tribune.]

Our readers who are interested in inventions will find Hon. C. A. Shaw, of 110 Tremont Street, Boston, unsurpassed as a Solicitor of Patents and Counsellor in patent suits.

SUITS FOR INFRINGEMENTS.

An infringement of a patent consists either in the *making*, the *selling*, or the *using* of the article patented, without full leave of right and authority from the *owner* or *owners* of the patent.

When a patent is issued by the government, it is implied that it shall give to the inventor and his heirs and assigns, the *sole and exclusive control* of his invention, and under it he can maintain his rights, if necessary, in a court of equity in the country.

The patent itself is prima facie evidence of the fact that the inventor and his legal representatives have the exclusive right to the invention, as its beneficiaries, and he is sufficient proof for any suit he or they may bring. It devolves upon the infringer, therefore, to show that the owner of the patent has not the right he claims, rather than upon the owner to show that he has the exclusive right, for the reasons stated.

There is another of any importance, due to extension, which is not being more or less infringed. It frequently happens that an inventor has obtain a patent, and for some reason or the other, it is laid aside and almost forgotten for years, when all at once it is discovered that everybody is infringing it, and the owner of the patent becomes suddenly rich by collecting large damages. I know of a patent now being extensively infringed in a leading line of manufacture under which the owners will realize a fortune, if they can get it. It was taken out some years ago, and the inventory owner was advised by the country had to pay heavy damages for using it. It was considered a very trivial thing, but which they could not do without, and in fact which they did had been using for years.

The fact that an infringer handles, sells, or uses a patented article without knowing that it is patented, does not resist him exempt from damages or heavy suppose. Whenever makes, sells, or uses a patented article, he is presumed to know it is so, and he must pay for damages, whether he knew he was infringing or not. To determine which is the infringement notify others, and the probable results of a suit to obtain an injunction and recover damages, is a matter of considerable importance and legal ability, but large experience in such matters. It is a very easy thing to bring a suit under a patent, but sometimes it is not so easy to maintain it after it is made, and inventors and owners of patents, have sometimes had to pay the costs of such suits and expenses by not having their fees for investigation and obtaining proper advice at the outset.

It is well known to American inventors that I have within the last twenty years fought through successfully some of the most important patent suits ever litigated in this country, both as plaintiff and defendant, and I think it is not claiming too much when I say that my experience and success in this line are as great as that of any other person in the United States.

I am at all times happy to consult with inventors in relation to patent suits, and to make consultations and give opinions respecting the validity of patents, the infringement of patents, or liability in suits already pending or to be brought, where I am satisfied that there is right and justice on my side. My charges in such matters will always be reasonable, but most of course depend largely upon the importance of the case, and the time and labor devoted to it.

DEFENCE OF PATENT SUITS.

The owner of a patent is far more likely to be sinned against than he is to sin himself, but it sometimes happens that very unjust suits are brought under letters patent against parties who are not really guilty of any wrong in the premises. In such circumstances, they are put to a great deal of trouble and perhaps finally have to pay heavy costs and damages.

I am prepared at all times to make investigations and advice with parties who desire to defend such suits or to settle them upon honorable possible terms, and can be retained as Counsellor or Expert in such cases at satisfactory rates, but my charges must depend somewhat, of course, upon the importance of the suit and the time expended upon it.

[ENCLOSURE]

☞ *LOOK AT PAGE 12.*

☞ After reading this Pamphlet, please pass it to some Inventor in your vicinity.

Important to Inventors and the Owners of Patents.

ESTABLISHED A. D. 1850.

OFFICE OF

CHARLES A. SHAW,

Solicitor of American and Foreign Patents, and Counsellor in Patent Suits.

110 TREMONT STREET, BOSTON.

BRANCH OFFICES: Washington, Ottawa, London, Paris, Berlin, Vienna, St. Petersburg, Rome, Madrid, Brussels, and Rio de Janeiro.

A CARD.

FOR OVER TWENTY YEARS, as a majority of American Inventors are aware, I was engaged in the patent business in Washington, D. C., and during the last twenty years I have devoted my entire attention to soliciting patents and to the management of patent suits, also to legal cases in which I was the attorney in the country. A constantly increasing practice, however, as well as the convenience of clients, demanding enlarged facilities and a change in business, the branch of my business was, in 1872, removed to the office, 110 Tremont Street, Boston, where a greater share of personal attention is now given to the business than was possible in a larger office.

IT IS KNOWN TO MANY that among my patents which have been obtained, reissued, extended, sold or litigated under my auspices during the past twenty-five years, are some of the most valuable ever granted, including the principal patents for Sewing Machines, Paper Collars and Collar Machinery, Knitting Machines, Boots and Shoes and Boot Machinery, Nail Machines, Photographic Cameras and Apparatus, Locomotive Brakes and Locomotives, Furnaces, Leather and Tanning Apparatus, Cotton and Woolen Machinery, Cotton Gins, Cotton Presses, Hoisting Apparatus, Planing and Sawing Machinery, Stoves, Hot-Water Heaters, Steam Engines, Steam Boilers, Steam Generators, Steam Pumps, Steam Hammers, Surgical Implements, Clothing, Fire Arms, Sleeping-Car Furniture, Printing Presses, Agricultural Tools, Domestic Implements, and many others ranging in value all the way from ten thousand to several million dollars each.

HAVING GROWN MANY PATENTS that a large proportion of all the patents granted will not stand the test of a well-directed suit, I have found it a matter of great importance to my clients, and I believe it is to a great majority of cases the safest fact inaspiration, inconsequent reason on the part of the Solicitor or person who takes out the patent for the inventor. *Now*, it is rarely difficult to make accurate drawings, give a correct description, and obtain strong and valid claims for the original patent, then it is to secure them in a reissue, to say nothing of the great saving in expense and the unnecessary delay. A patent reissued is almost as valuable as a new patent, and it is not subject to interference or delay.

ANYONE OF AN INVENTOR to procure a valid patent, it is equally important to sell or manage it in such a manner as to realize the most money possible. To all who intendes my Agency, I shall always be pleased to give the benefit of such experience as I have had in the organization of stock companies and the sale and management of patents, so far as advice in such matters may be deemed desirable. I have had a large experience in the management of patents, and have been in the employment of large fortunes solely through assistance in this connection. The majority time I have been in the employ of making money out of the own inventions is wholly unknown to the outside world, in fact, it is the very opposite when he works intelligently under *proper* instructions. No one, as a general rule, understands the merits of an invention as well as its author. All that is required, then, is a full knowledge of the best means of operating or disposing of it, to realize a fortune from nearly any patent ever issued.

HAVING MADE A SPECIALTY for many years past of obtaining important reissues, and attending to difficult rejected cases, I have no hesitation in assuring inventors and owners of patents that will my services of value in all such matters.

In the prosecution of the defense and defense of patent suits, my success also warrants the statement this portion to cause of the clamorous will subserve their interests by consulting me in reference to a proper course of action at any stage of the proceedings.

THE ROMINENT CLAIMED made by some Patent Solicitors have prevented many inventors from taking out patents. It will be seen that my fees are much lower than those of other solicitors, a fact which should be well considered by unprejudiced inventors generally.

ADVICE as to the patentability of inventions, and concerning Assignments, reissues, rejections, interferences, and all other matters pertaining to patents, and the management of patent suits and cases requiring more than ordinary investigation, when charged will be made at low rates, but in accordance with the importance of the subject and the time and labor involved.

I TRY AND SHOW MY ADVICE BENEFICIAL to inventors, patents, or patent suits in any part of the country, and will always be pleased to make myself the best advisor when in Boston, and to communicate freely by mail at all times. Correspondence of every description relating either to inventors or patents will be considered strictly confidential.

CHARLES A. SHAW,

Solicitor and Counsellor.

Entered, according to Act of Congress, in the years 1872 and 1874, by CHARLES A. SHAW, in the Office of the Librarian of Congress at Washington.

Electric Light Com.

1878-09-(23)

MESSENGER, POLICE AND FIRE
Services furnished instantly
American District Telegraph Co.
Baltimore, ______ 187_

[From [illegible] Sun.] [illegible] Mr. Edison [illegible] discovered how to make [illegible] and practicable substitute [illegible] gas. Many scientific men have worked assiduously in that direction, but with little success. A powerful electric light was the result of these experiments, but the problem of its division into many small lights was a puzzler.

Gramme, Siemens, Brush, Wallace, and others produced at most ten lights from a single machine, but a single one of them was found to be impracticable for lighting aught save large foundries, mills, and workshops. It has been reserved for Mr. Edison to solve the difficult problem desired. This, he says, he has done within a few days. His experience with the telephone, however, has taught him to be cautious, and he is exerting himself to protect the new scientific marvel, which, he says, will make the use of gas for illumination a thing of the past.

Mr. Edison, besides his power of origination, has the faculty for developing the ideas and mechanical constructions of others. He visited the Roosevelt pianoforte factory in this city and, while examining the component parts of the instruments, made four suggestions so valuable that they have been patented. While in the mining district of the West, recently, he devised a means of determining the presence of gold below the surface without resorting to costly and laborious boring and blasting.

While on a visit to William Wallace, the electrical machine manufacturer, in Ansonia, Conn., he was shown the lately perfected dynamo-electric machine for transmitting power by electricity. When power is applied to this machine, it will not only reproduce it, but will turn it into light. Although said by Edison to be more powerful than any other machine of the kind known, it will divide the light of the electricity produced into but ten separate lights. These being equal in power to 4,000 candles, their impracticability for general purposes is apparent.

Each of these lights is in a substantial metal frame, capable of holding in a horizontal position two carbon plates, each twelve inches long, two and a half wide and one-half thick. The upper and lower parts of the frame are insulated from each other, and one of the conducting wires is connected with each carbon. In the centre, and above the upper carbon, is an electro magnet in the circuit, with an armature, by means of which the upper carbon is separated from the lower as far as desired. Wires from the source of electricity are placed in the binding posts.

The carbons being together, the circuit is closed, the electro magnet acts, raising and lowering the upper carbon enough to give a bright light. The light moves toward the opposite end from which it starts, then changes and goes back, always moving toward the place where the carbons are nearest together. If from any cause the light goes out, the circuit is broken, and the electric magnet ceases to act. Instantly the upper magnet falls, the circuit is closed, it relights, and separates the carbon again.

Edison on returning home after his visit to Ansonia, studied and experimented with electric lights. On Friday last his efforts were crowned with success, and the project that has filled the minds of many scientific men for years was developed.

"I have it now!" he said on Saturday, while vigorously turning the handle of a Ritchie inductive coil in his laboratory at Menlo Park, "and, singularly enough, I have obtained it through an entirely different process than that from which scientific men have ever sought to secure it. They have all been working in the same groove, and when it is known how I have accomplished my object, everybody will wonder why they have never thought of it, it is so simple.

"When ten lights have been produced by a single electric machine, it has been thought to be a great triumph of scientific skill. With the process I have just discovered, I can produce a thousand—aye, ten thousand—from one machine. Indeed, the number may be said to be infinite. When the brilliancy and cheapness of the lights are made known to the public—which will be in a few weeks, or just as soon as I can thoroughly protect the process—illumination by carbureted hydrogen gas will be discarded. With fifteen or twenty of these dynamo-electric machines recently perfected by Mr. Wallace I can light the entire lower part of New York city, using a 500-horse power engine.

"I purpose to establish one of these light centres in Nassau street, whence wires can be run up town as far as the Cooper Institute, down to the Battery, and across to both rivers. These wires must be insulated and laid in the ground in the same manner as gas pipes. I also propose to utilize the gas burners and chandeliers now in use. In each house I can place a light motor, whence these wires will pass through the house, tapping small metallic contrivances that may be placed over each burner. Then housekeepers may turn off their gas and send the meters back to the companies whence they came. Whenever it is desired to light a jet it will only be necessary to touch a little spring near it. No matches are required.

"Again, the same wire that brings the light to you," Mr. Edison continued, "will also bring power and heat. With the power you can run an elevator, a sewing machine, or any other mechanical contrivance that requires a motor, and by means of the heat you may cook your food. To utilize the heat, it will only be necessary to have the ovens or stoves properly arranged for its reception. This can be done at trifling cost. The dynamo-electric machine, called a telemachon, and which has already been described, may be run by water or steam power at a distance.

"When used in a large city the machine would of necessity be run by steam power. I have computed the relative cost of the light power and heat generated by the electricity transmitted to the telemachon to be but a fraction of the cost where obtained in the ordinary way. By a battery or steam power it is forty-six times cheaper, and by water power probably ninety-five per cent. cheaper."

It has been computed that by Edison's process the same amount of light that is given by 1,000 cubic feet of the carbureted hydrogen gas now used in this city, and for which from \$2.50 to \$3 is paid, may be obtained for from twelve to fifteen cents. Edison will soon give a public exhibition of his new invention.

Tom.

Is this a true bill?

Write me about it

Yrs

Hugh H Craig

364. W Balt St

Am going to address this to "Professor." Have you got used to that yet?

Bullets No date
about 1862-63
Hugh N. Craig
"

no mus

Received for Lincoln
Jan 12 1926 Mrs

T. A. EDISON. 2

Menlo Park, N. J., Oct 4 1878

Mr William Wallace
Ansonia Conn

What is the price of duplicate of machine that you got the copy are from Answer free

T A Edison

17/NH

3 30 pm
G Bu

T. A. EDISON. 3 KDS

Menlo Park, N. J., Oct 4 1878

Ansonia Conn

T A Edison

One Thousand dollars to you twenty five per cent discount confidential

Wm Wallace

11/NX Tpg

T. A. EDISON. 3

Menlo Park, N. J., Oct 4 1878

Wm Wallace Ansonia Conn

Have you one on hand

T A Edison

5 DN

5
9 Tp

T. A. EDISON. 4 611

Menlo Park, N. J., Oct 4 1878

Ansonia Conn 4

T A Edison mo

Can have one ready in three days

Wm Wallace

9 DN

Tg

T. A. EDISON. 4 612

Menlo Park, N. J., Oct 24 1878

Wm Wallace
Ansonia Conn

Send it and draw at sight

TA Edison

6 PM
by Ty

Hoboken Oct 9 78

Prof Morton

Ans Oct 10 78

Stevens Institute of Technology,

HOBOKEN, NEW JERSEY.

October 9th 1878

My dear Sir

So many people ask me about it that I will take the liberty of inquiring if you really have lit upon some new idea in connection with the electric light, or if the Sun article was only "taffy."

Mr Pugh wrote me the other day asking me to try to induce you to lecture for him. All I will say, is that if you care to go to the trouble of lecturing at all I would advise you

to lecture for him. He is
an active, successful,
liberal and honorable
manager.

Very truly yours
Henry Watson.

BRASS AND COPPER ROLLING MILLS. ESTABLISHED 1840.

Office of Wallace & Sons.
Manufacturers of
Brass and Copper Goods

WAREHOUSE
89 CHAMBERS & 71 READE STS.
NEW YORK.

Ansonia Conn. Octo 10 1878

Prof. Edison
My Dear Sir
I am sending
you the magnets machine I
neglected to give you the speed
it should run about 800 revolutions
hoping you have received it ere this
I am yours
Very Resp
William Wallace

ARNOUX & HOCHHAUSEN,

MANUFACTURERS OF

DYNAMO ELECTRIC MACHINES,

For Electrotyping, Gold, Silver, Nickel, Brass and Copper Plating, &c.

2 and 4 HOWARD STREET,

New York, Oct 10th 1878

Mr T. A. Edison

Sir

We have as yet no published price list.

We sell them homes at $400 & at $600 the six Hundred is the size we worked at Mans. Beach & now working at Elmira –

Yours Truly

Arnoux & Hochhausen

ESTABLISHED 1820.

Condit, Hanson & Van Winkle

Importers & Manufacturers & Dealers in

Acids, Dye Stuffs, Chemicals, etc.

Manufacturers of Nickel & Electro Platers Material.

236 Market Street, cor. Mulberry St.

WESTON DYNAMO ELECTRIC MACHINE

Newark, N.J. Oct 12 1879

Mr. T. A. Edison

Menlo Park

Dear Sir,

In reply to your of yesterday, we write that we will take 12½ p.c. from Catalogue prices - and will give you a month's trial on the above

Yours truly

Condit Hanson & Van Winkle

M. D. LIGGETT, President.
(Late Com'r of Patents.)

G. W. STOCKLY, Vice Pres. & Treas.
Manager.

W. H. LAWRENCE,
Sec'y & Supt.

SPECIALTIES:
BRUSH DYNAMO-ELECTRIC MACHINES,
FOR
ELECTRIC LIGHT,
ELECTRO-PLATING, &C.
AGENTS FOR THE
BELL TELEPHONE.

TELEGRAPH SUPPLY CO.

MANUFACTURERS OF ELECTRICAL MACHINERY,
—AND—
BUILDERS OF TELEGRAPH LINES,

OFFICE AND MANUFACTORY,
NOS. 145 & 147 ST. CLAIR STREET,
CLEVELAND, O. Oct 11 1878

T. A. Edison
Menlo Park
N.J.,

Enclosed please find illustrated circular should you desire we can send you price upon receiving yours stating amount of Candle Power wanted.

Reply to
Telegraph Supply Co

ESTABLISHED 1820.

Condit, Hanson & Van Winkle,

Importers & Manufacturers & Dealers in

Acids, Dye Stuffs, Chemicals, etc.

Manufacturers of Nickel & Electro Plates Material,

236 Market Street cor. Mulberry,

WESTON DYNAMO-ELECTRIC MACHINE

Newark, N.J. Oct 12 1878

Mr T. A. Edison Menlo Park

Dear Sir

We are working night & day on machinery & have not had it up to yours down for 1 wk.

To save delay we send large pulley & the 12 wide Machines have 6 in pulley 7 in face Speed 800. We have Counter Shaft with 6 in face & 7 in pulley 7½ in face & 12 in driving pulley with flyfly as $10.00 ea

Yours truly

Condit Hanson & Van Winkle

Newark Oct 12 78
Credit H & Vance

Ans'd Oct 14-78
See letter book

Please send one countershaft as mentioned in your letter of 12 6 in fast & loose pulling 12 in drum with shipper.

T. A. EDISON. 1 10

Q.

Menlo Park, N. J., Oct 14 1878

Oct 14

S. L. Griffin Mw

Allow no person in laboratory today, & be careful of light apparatus

T. A. Edison

12.18.14
9.21

Boston Oct 16 78

J G Kidder

Answered Oct 16 78

Boston Oct 15 1878

Prof T. A. Edison
Menlo Parks (N J)

Sir I have noticed in the papers, contradictory statements in regard to the question whether you had succeeded in being so able to divide the electricity to be excited by power at a particular point, as to enable you to furnish a substitute for gas at so much reduced cost — I have long had an impression that light so treat might eventually be

produced by Electricity &
after the wonderfull discoveries
that you have already made
I should not be surprised
if you could do it —

I feel a great interest
in the matter & if you will
do me the favor to write
to me how far you have
succeeded & whether you
feel confident of complete
success. — I shall esteem
it an obligation conferred
upon your admirer &

Obt Svt J. G. Kidder

Direct to Albion Hotel
Nº 1 Beacon St.

GOLD & STOCK TELEGRAPH CO.

G. WALKER, Vice-Pres.
P. O. Box 5641.

New York, Oct. 16 1878

Dear Sir -

I beg to introduce to you Mr. Geo. P. Stearns who desires to know what action you may be willing to communicate respecting the electric light

Yours truly
George Walker

Thos. A. Edison
Menlo Park.

SIEMENS BROS

12 Queen Anne's Gate,
London, S.W. 16 Octr. 1878

T. A. Edison Esqre
Menlo Park N.J.
U.S.A.

Sir,

We beg to acknowledge the receipt of your letter of the 30th ultimo and have much pleasure in enclosing herewith a printed list of our electric light apparatus containing the following prices:-

Small dynamo-electric machine	(Fig 2)	£70 . 0 . 0
Medium " "	(" 3)	112 . 0 . 0
Loose pulley for same		2 . 0 . 0
Small electric lamp		15 . 0 . 0
" " "	with reflector	50 . 0 . 0
Large electric lamp		30 . 0 . 0
" "	with reflector	70 . 0 . 0
Carbons	per foot	0 . 1 . 0
Leading wire	per 100 yards	5 . 0 . 0
" "	" " "	8 . 0 . 0
" "	" " "	10 . 10 . 0
" "	" " "	20 . 0 . 0
Pendant for lamp		4 . 0 . 0

Base contact slide	£1. 0. 0
Set of commutator brushes	0. 5. 0
Large dynamo machine	250. 0. 0
Fresnel lens	130. 0. 0
Velocimeter	2. 2. 0
Self acting commutator	2. 15. 0

Prices for delivery in London & exclusive of packing.
Terms of payment cash on shipment of goods.

We send you per book-post our pamphlets No. 3 & 30, some newspaper extracts referring to our light and shall be pleased at any time to give you further information if desired.

We are,

Sir,

Yours faithfully

J. Chrans & Co.
R. & French Sts

T A Edison .... *Washington, D. C.,* Oct 17 .1878

Menlo Park NJ

SIR:

Sir Will you please give us the names of the party in New York to whom you sold the patent for lighting by electricity & oblige yours

A SOLDIER wounded or disabled in any war is entitled to a Pension, and in case of death from such wounds or disability his widow is entitled, or if she has died, his child or children under 16 years may receive the Pension he would receive, if living.

SOLDIERS in all wars prior to March 3, 1855, are entitled to Land Warrants. The widow of such soldiers even though re-married, or if his widow is dead, his child if under age March 3, 1855, is entitled to same quantity of land as was the soldier when living.

PATENTEES should send a description of their invention with a rough drawing that we may make an examination and prepare the specifications to be sent to, and signed by the inventor.

LAND TITLES, Land Entries, Mineral Land Claims, Soldiers' Additional Homestead Entries and all business in the General Land Office attended to promptly.

All communications enclosing stamps will receive an immediate answer.

Yours &c.,

PRESBREY & GREEN.

DR. A. H. BEST,
DENTIST,
SAVANNAH, GA.

Savannah Ga
Oct. 17th 1878.

Mr Thomas A. Edison.

Dear Sir The subject of Electric Lights is receiving considerable attention here just now and I write to ask if you have as yet completed anything in that line that is ready for market? If so I think I can be of some service to you here. I think of two stores that are trying to get the N. Y. E. Light company to compute and place the lights in position. but the ~~cost~~ charge of that company is an objection, and there is not a suitable means by which the machine can be run on a small scale that will make it as cheap as gas.

I have recently patented a water motor which is just the thing as it is both powerful and runs very fast, but it requires some man to take hold of it and manufacture it and the sooner it is done the better. The No of My patent is 207,707

Please do me this kindness to inform me if the problem of successfully lighting towns with electricity has been satisfactorily solved

If your Electric Lighting Apparatus is as yet complete, and you would appoint me agent for the state of Georgia. I think I might make the project mutually profitable.

I would be pleased if you get a copy of my patent and enclose it in which of the other.

Hoping dear Sir to hear from you soon. I Respectfully beg to remain.

Your Most Obt Servt.
H. H. Best, M.D.

Summerville Oct 17 78
Dr H H Best
Answered Oct 25

145 Mariner St
Buffalo N.Y.
Oct 18th 1878

T. A. Edison
Menlo Park N.J.

Dear Sir

Aug 18th last I wrote you relating to electric light — Your returned reply of 19th was duly rec'd — in which you remarked that you had not up to that time given attention to the subject but if in the future you should do so I might again hear from you — I now notice by public reports you have given such attention and produced results as stated — Now can I ask you to remember me if any thing can be done in this our City of Buffalo — please note — that I can satisfy you about my ability to manipulate the humble bee —

Resp'y Yours Wm Morehouse

93 St. George's Square
Belgravia
London S.W.

18 Oct.

Dear Mr Edison

I am so very much
pleased to hear of your
wonderful discovery of the
dividing the electric light
that though a stranger I
feel I must write hoping to
congratulate you and
wish you every success.
I hope you have securely
patented your discovery
and that you will come
to England to show it.
I see in the Times they

be advertising for Tenders to light the Crystal Palace at Sydenham — and am further informed by this as only a few days since the Chairman of their Gas Company said he did not fear the Electric Light supplanting gas as it elevates the value of gas shares! My house is in a fashionable part of London and (if married — or with a sister) you are quite welcome to come and stay with us — and if you will assume an against being blown up nothing would please me more than to send back my gas meter and have your apparatus to supply the light through the existing gas fittings, and you could ask all the Lords in town to dine your guests for what would amount in this private house, would measure my share — and you would indemnify yourself for expenses by opening an exhibition ticket at half a guinea each — London would be electrified indeed on your account.

I have been quite praying for the practicable application of the Electric light for domestic use ever since I heard of a lamp exhibited by a Russian gentleman — and to be delivered from smoke, yellow gas with its disappointing heat and sulphurous smells is indeed a delightful prospect. I wonder if plants would thrive in rooms lighted by electricity. I feel quite enthusiastic at your success & trust that you may derive all the benefit from it that you so well deserve.

With best wishes I remain dear Sir
Yours truly
J. Shakespear

Endorsement
E. Stanhope
Aug 23. 78

Aug 23 78
Aug 23 78
106

I had almost forgotten to introduce myself — I am the Widow of an old and distinguished Indian Officer who long served the Staff employ in Foreign parts and am living with my daughter in my furniture house in Belgravia — but am not yet too ancient to appreciate courtesy that transpires in Royal Circles. My dear Father's only Sister married a former Bishop of New York named Moore — do that Still entitle me to Princesse, and shall the more cordially welcome friends from the New World — I shall hope soon to hear from you as I gather Arrangements are for the present Adieu.

Boston Oct 18/78

Thomas A. Edison Esq.

Dear Sir.

This time I am not speaking in behalf of the "Old Lady" or any other Charity, but write directly on my own account to congratulate you on your new discovery of light and heat production. If my Corporation is to be founded for New England, I should like to be at the head of it - having full faith in the discovery itself and full confidence in my ability to introduce

it successfully in face of any or all opposition. I am just fitting up a large warehouse just from building and wish to have it heated & lighted by your method. Please to let me know what you are doing in this direction and inform me if I can be put on same footing as your friends in New York if I must take this thing in New England. My visit to Menlo Park is remembered with great pleasure and

UNIVERSITY OF PENNSYLVANIA.

Philadelphia, Oct. 18th 1878.

My dear Sir:—

This note will introduce to you Mr. Samuel H. Davis, of Riverton, Pa., a gentleman prominently connected with the gas interests of the country. If you are at liberty and can confer with him on the matter of your new light, I am sure you will be glad to know him.

Cordially yours,

George A. Barker.

Thos. A. Edison, esq.

37 German St.
Balto. Md. Oct 18/78.

Mr Edison.

Dear Sir

Seeing by the papers that you will want a meter for measuring your electric light, and knowing you will require a register for the same I write to ask that you will not contract for registers until I can have an opportunity of exhibiting to you "Clark's Register"—

Refer you to Dr Green, Pres't & Mr Jno VanHorne Vice Prest. N. N. Tel Comp'y. The branch of a 3 year year old child will work our register and it can be made to register 99.999 times in one third the space of the ordinary Gas Meter register. It is also very cheaply made.

Awaiting your reply.

Yours Truly &c

W. F. Beasley

SUBSCRIPTION BOOK DEPARTMENT.

THE AMERICAN NEWS COMPANY,
39 & 41 Chambers Street,
NEW YORK.

Corning, N.Y.
Oct. 28th. 1878.

Friend Edison.

When I was in Auburn last week, and the early part of this, all of my old friends there made many enquiries about you, as I believe is now the case the world over. Of course I "set you up", as the saying is, not only from principle, but because as you are aware, it is considered quite the thing to know you personally.

SUBSCRIPTION BOOK DEPARTMENT.

THE AMERICAN NEWS COMPANY,
39 & 41 Chambers Street,
NEW YORK.

(2)

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Your "Electric Light" just filling the papers, was the great subject of discussion and I made some gas men sick. There are several men of ample means that live well together there, and are forward in all new improvements. Just now are extending the Holley Steam Heating system, having got that, every thing else well established.

SUBSCRIPTION BOOK DEPARTMENT.

COMPANY,
39 & 41 Chambers Street,
NEW YORK.

(3)

_____ 187

A desire was expressed on the part of two or three of the best of them, that they might know more at an early day as to your business plans on the Coast, and I know them, their means, and business ability so well that I wish you might also know them before you make any engagements. I believe that I can secure your interests with them, and I think

SUBSCRIPTION BOOK DEPARTMENT.

THE AMERICAN NEWS COMPANY,
39 & 41 Chambers Street,
NEW YORK.

(4)

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you have not lost all of your confidence either in my ability, or disposition to do so.

Give me a chance. If you fall in with Lieut. John R. Kenyon of Auburn, or he with you, I will say that the acquaintance is worth cultivating. He is likely to be in New York next week. I may not know for two weeks, yet perhaps in one. I shall get down to Menlo when I do.

News Co. have my address daily. Regards to "Pete" and other friends.

Yours truly,
R. A. Miller.

T. A. EDISON. 4

Menlo Park, N. J., Oct 18 1878

Condit Hanson & Van Winkle Newark NJ

Has machine been shipped

T. A. Edison

4 P.M.

1.40 pm
9 MY

T. A. EDISON. 3

Menlo Park, N. J., Oct 18 1878

Newark N.J. 18 T. A. Edison. Mo

Will ship the machine tomorrow

Condit H & Van W

ESTABLISHED 1820.

Condit, Hanson & Van Winkle,

Importers & Manufacturers of & Dealers in

Acids, Dye Stuffs, Chemicals, etc.

Manufacturers of Nickel & Electro Platers Material.

236 Market Street cor. Mulberry.

WESTON DYNAMO-ELECTRIC MACHINE

Newark, N.J. Oct. 18 1878

Mr T. A. Edison Menlo Park N.J.

Dear Sir We regret delay in shipping the Weston Machine but hope to get it off Monday Next

Yours truly

Condit Hanson & Van Winkle

ESTABLISHED 1820.

Condit, Hanson & Van Winkle,

Importers & Manufacturers of & Dealers in

Acids, Dye Stuffs, Chemicals, etc.

Manufacturers of Nickel & Electro Platers Material.

236 Market Street cor. Mulberry.

WESTON DYNAMO-ELECTRIC MACHINE

Newark, N.J. Oct. 19 1878

Mr T. A. Edison Menlo Park N.J.

Dear Sir We shipped you to day N.J.E. No. 17 in Machine, this is our 1 wire Plating Machine and of Medium E.M.F. Mr Weston requests us to write you that in case your factory Are with Crooks Bell Na fra We will exchange for this, Also that if you require any assistance in adjusting Dynamo & Regulating Attachment leave Mr Weston be happy to send some one to factory

Yours truly

Condit Hanson & Van Winkle

Gies & Co. Buffalo N.Y.

H. C. SILSBY. HORACE SILSBY. CHAS. T. SILSBY.

SILSBY MANUF'G CO.

HOSE CARTS, ROTARY PUMPS, Rotary Steam Fire Engines, HOSE & FIRE DEPT. SUPPLIES.

Seneca Falls N.Y. Oct. 19th 1878

Prof. Thomas A. Edison,
Menlo Park, N.J.

Dear Sir, We have in our nickel plating department a 12 inch Water Dynamo Electric Machine, bought from Mess. Condit, Hanson & Van Winkle, of Newark, N.J. We wish to know if this machine can be used for lighting our factories and office under the process recently invented by you; — and, if so, if you will furnish us the necessary materials and information for putting it in operation, and at what expense.

Kindly let us hear from you at your earliest convenience, and much oblige —

Very respectfully yours,

Silsby Manuf'g Co.

G. W. Simmons & Son,

Wholesale & Retail Clothiers & General Outfitters,

Oak Hall, 32, 34, 36 & 38 North St.

Boston, Oct. 21st 1878.

T. A. Edison Esq.

My Dear Sir.

Yours of the 19th inst. rec'd. I thank you for the trouble you have taken in writing to Mr Lowrey & trust he may be able to come to an understanding to our mutual advantage. The letter

wh my low note on Saturday
Evening ~~showing~~ enclosing
one from Mr Pairs Company
with pamphlet will you
also kindly forward to
Mr Lowry.

Yours
Very Truly
J. Hammond

96 Liberty Street
New York
Oct 21/98

Thos A. Edison Esq
Dear Sir

Enclosed please find letter of introduction from L. C. Riff Esq.

While realizing that your time must be fully occupied, I shall still feel obliged if, at your convenience, you will favor me with an interview for the following reason.

At the time of the "Ba Ro" Colliery explosion in 1886 my attention was drawn to the light used by workers in collieries, and it became my desire to provide them with a clear safe and reliable light.

Your subdivision of the Electric Light places this within reach and I shall be pleased to have an opportunity to exchange views upon the subject.

I am Dear Sir
Yours respy
Henry D. Thirwall

[ENCLOSURE]

J. C. REIFF,

No. 52 BROADWAY,

New York, Feb. 15th 1878

My dear Edison

The bearer Mr Plimsoll (brother of M.P. who took such interest in shipping sometimes) desires to consult you regarding possible application of the Electric light to Coal mines, with which he is well acquainted.

Yours

J. C. Reiff

Introducing
Mr Plimsoll

Phila Oct 22 78
John A Reattan

Ans'd Oct 23 78

Philadelphia Oct 22d 78

Thomas Edison Esq.
Honored Sir!

The papers speak of an exhibition of your Electric Light at Menlo some time soon. Will you permit me to be present?

Believing, that just such persons as myself, whom half-knowledge and whole-curiosity prompt to bore you, are addressing you per Lapse for the above purpose I faithfully promise, that if the date of the exhibition be made known to me, I shall in no manner seek to intrude personally on you nor in any way render myself "nasty."

As Supt.d of a number of Schools

and other institutions where the question of lighting cheaply and rapidly has become one of importance, the successful subdivision of the Electric light has been my study for years — I confess I have not succeeded to my satisfaction —

This is my argument for asking the above permission —

I refer to Prof Barker of the Penna. University from whose room, I had the pleasure the other evening of talking "Morse" and Telephone to some one in your place ("Q") for some time —

With greatest respect
Your obdt Servant
John A Blattau
Supt Germ. Cath. Schools
410 Reed St
Philadelphia Pa

KEEFER & CO.,

Box 4374, New York P.O.

Manhattan Beach, L. I. Oct 22 1878.

Mr Griffin.

Sir.

You know how interested we are in this light question, and you put us in the way of ascertaining what has been accomplished by Edison & what we can do at the Beach next year. You are too busy to write details. Perhaps you can send us some pamphlet or prospectus of the new Company.

Quickly

A C Barnap

Box 437 4 N.Y.P.O.

Barker
Ans Nov 1 78

3909 Locust St.
Philada Oct. 23d. 1878.

My dear Dr. Edison:—
(Chevalier de la Legion d'Honneur)

Your letter of the 21st I received this morning. I am glad to know what you write concerning the business management of the Electric Light since now I can refer all who apply to me to Mr. Lowrey. I gave my card a day or two ago to Prof. Chauvenet of St Louis, who came to me seeking just this information.

What you say about the use of your new light for my lecture quite upsets me. You will remember that before I consented to give the lecture, I came to Menlo and saw you about it. And that it was upon your promise to let

me exhibit the new light at my lecture, that I agreed to give it. We not only talked about my having it, but we discussed the different forms in which it would be best to put it, and you offered me a lot of those cast-iron stands with the lamps on them. Not only therefore have I promised several of my friends here that I would exhibit the new light at my lecture, but it has been advertised in the papers. I am anxious to make a complete demonstration on the electric light side of the question, and I have been counting on you to help me. As to the Company, I cannot conceive of their having any objection to its exhibition in a public lecture. On the contrary it would be an endorsement of it which would be of the highest value to them. No, if that is the real reason

and you yourself are all right and are anxious for me to have it, I will go to New York myself & with high letters as I can get, I think I could get their permission. Not to have one of your lights there at my lecture after all I have promised, places me in a position before the community which I would rather lose my right hand than occupy. Only two weeks ago and you wrote that you would buy and come over to the lecture. Now you dont know whether you can loan me even a light for the occasion. I beg of you not to desert me now. Do let me show something that represents your new invention. You will find the reasoning of Dr. Siemens upon which Sir Wm. Thomson reasons so well, upon transmission of electricity, in the discussion which took place in the Institution of Civil

Engineers, London, on the evenings of Jan. 22 & 29, and Feb. 5, 1878. It is published in their Proceedings, vol. vii, part 2. I have it in a separate pamphlet & will have it copied, if you care for it. Thomson says "with an exceedingly moderate amount of copper it would be possible to carry the electric energy for one hundred, or two hundred, or one thousand electric lights, to a distance of several hundred miles". Houston & Thompson's electric lamp of which Norton speaks so approvingly, proposes to use vibrating carbons producing a secondary spark at each separation, generated from a large coil in circuit. They think as this secondary spark is so bright they can get a bright light with very little battery power. Trying to lift themselves by their boot straps again! Thanks for the things you promise to send me. I shall look for the phonograph tomorrow. Don't let my letters fail will you? Cordially yrs Geo. F. Barker.

Friend Edison -

I enclose herewith for your information a letter I rec'd this AM from N. Hucker of our Buffalo Office.

You are undoubtedly acquainted with him, and can at once determine whether, or not, he would be the proper man for your service, in the emergency named.

Yours Truly

Gerrit Smith

New York Oct 23. 78.

[ENCLOSURE]

OFFICE OF THE
Western Union Telegraph Company,

Buffalo Oct 19 1878.

Friend Smith

What is there about Edison's Electric Light - Is there anything in it - Has Company formed in Newport. Who is President? What your opinion as to its being a success and how would a poor cuss like myself be likely to stand in getting the right for Buffalo. Do you think telegraphers would be given the inside track?
Any information on these points will be appreciated -
Come up & get a drink some day. Yours truly
Wilkinson

A. HARNICKELL
P. O. BOX 2503,
26 CLIFF ST. NEW YORK.

New York, Oct 23 1878

Mr. Thos A. Edison
Menlo Park N.J.

Dear Sir:—

Heavy and light Copper rods and wire.

I can furnish such as will prove to possess Electric Conductivity equal to Silver, and at moderate prices.

Capacity, 500,000 pounds per month now, and with orders in hand could increase after 2 months to about 5,000,000 pounds per month.

In any case however it would be necessary to give me the exclusive privilege to furnish for a term.

If you desire an interview

please to let me know when you can call on me. I do not care to travel just now, else could offer to see you at your factory.

I imagine that conductivity is of paramount importance, and as I can make your shapes of largest diameter, and if the physical quality suited, I dare say that you will be quite willing to avail yourself of my offer.

Yours truly

A. Warnicke

Do you care about chemically pure zinc? I intend making that, at cheap price.

CLINTON M. BALL
MANUFACTURER OF
CLOTHES WRINGERS
OFFICE NO. 2, HALL BUILDING,
TROY, N.Y. Oct. 23rd 1878.

Mr. Thos. A. Edison.
Menlo Park, N.J.

Dear Sir:

Upon friday of last week I called at your laboratory to see you, but found that the desired interview could be secured only at the expense of what might seem an intrusion upon your time and privacy; and so left without accomplishing the chief object of my visit. I have been for a long time and deeply interested in the subject of the "Electric Light" in its application to general and popular use, although my interest therein has extended no further than a consideration of the subject in its theoretical aspects, owing to the pressing nature of business engagements in other directions. The public announcement,

of the practical success of your recent experiments and investigations in this branch of Electrical Science led me to make a journey to Menlo Park, in the hope that you might have progressed so far in the elaboration of the details of your system as to be able and willing to exhibit it to persons interested in the subject. I turned back upon finding that such was not the case, and not having any claims upon your confidence so long as your plans in the matter were incomplete. I did also desire the opportunity of initiating a personal acquaintance with you, but the circumstances seemed unfavorable to the consummation of my wish in that respect. I think if we knew each other more we might perhaps like each other better.

I will acknowledge moreover that there was a strain of self-interest in the motives which prompted my pilgrimage to the present "foci of electrical attraction", al-

CLINTON M. BALL
MANUFACTURER OF
CLOTHES WRINGERS
OFFICE NO. 2, HALL BUILDING,
TROY, N.Y. 187

Edison

though not to an extent to qualify my sincere desire to form your acquaintance and to learn in detail of the success of a great scientific achievement. The motives of self interest as briefly as possible, may be thus stated, viz: I am just now out of business owing to embarrassments precipitated upon me by the dishonesty of a business associate, which embarrassment however I hope and believe will be only of a temporary nature; meanwhile, my time is now free to be turned to any profitable occupation, and I possess an extended and valuable acquaintance with the leading business men of this section of the Country. If your inventions in the field of light heat and power from electrical sources prove entirely and

T. Edison

practically successful in this application to popular use, I believe I am in a situation to help you at the same time to help myself, in the introduction of the same in this vicinity. The object of my present writing is to interest you in my behalf in this direction and I shall be pleased to furnish you with personal and business references to any required extent, should future developments confirm the practical success of your theories and the "Edison Electric Light, Heat & Power Co." desire a representation in this vicinity. At the suggestion of the gentleman in charge of your office I called upon Mr. Lowery, 3 Broad St. and filed with him an application for the control of Territorial rights under your patents particularly referring to the Albany and Rensselaer district of this State, should there be any competition for this field developed, I hope that my application may receive as favorable consideration

CLINTON M. BALL
MANUFACTURER OF
CLOTHES WRINGERS
OFFICE No. 2, HALL BUILDING,
TROY, N.Y. _____ 187

5 Edison

as that bestowed upon any other, and that I may, in any event, be able to secure the good opinion of yourself and the desire on your part to advance my interests in such a case to the extent of your ability. I am not wedded to Troy and Albany although my life for several years past has been identified with these places. I formerly lived for a number of years in Utica, in this State, and have a favorable knowledge of Central New York, and I also lived in Detroit Michigan for a couple of years 1864 & 1865, was in business there, prior to that time and afterwards for about 5 years at Utica. I do not desire to remove my residence at Utica; and in this

T. Edison

Matter should prefer, as I think, possess the requisite ability to handle the subject in a broader field. Of course I am in ignorance of the measure of success attending your Experiments and would wish that, if it did not entail too serious an Encroachment upon your valuable time, a reply might be had to these inquiries, viz: Do you contemplate the introduction of the Electric light into houses, offices, stores and the like; and does the result of your Experiments warrant you in the belief that such a result is practically demonstrated as possible and desirable? —

With high regard, believe me

Respectfully Yours

Clinton B. Bale

OFFICE HOURS—7 to 9 A. M., 1 to 3 P. M., and 7 to 10 P. M.
At Ky. Infirmary for Women & Children 10½ to 12½ P. M.

OFFICE OF GEO. W. GRIFFITHS, M. D.

S. E. Corner 11th and Jefferson Sts.

Louisville, Ky. Oct. 24th 1878

Mr. J. N. Eddison
Marlow Park
New Jersey

My dear Sir:

I have for months been opposing the exorbitant charges amounting to extortion, that the Gas Co. has been practicing both against the City and our people and have introduced resolutions looking to lighting the City by means of Coal Oil.

I have read from time to time articles regarding your late discovery viz:

Wind out the gases from the coal and the Milky Way

the lighting
system of the City. I should
like to learn something
more about it as this
adaptability to our City

The people and our
Gas. Commission I think are
almost ready for anything
rather than keep about
quietly to the extension of
the Gas. Co. If you have
time I pray you will
let me hear from you
as to the practicability of
trying your discovery here
&c.

Very truly &c
Geo. W. Griffith
Member Board of Aldermen
from 10th Ward

Edison's
Electric Pen & Multiplying Bdg.
address
Geo H. Bliss
General Manager.

J. W. MacKenzie
General Eastern Agent
267 Broadway N.Y.

T. A. Edison Esq. New York Oct 24 1878

Dear Sir:

I understand you to day there was a new Magneto Machine out in London giving double the current per Revolution over as compared with the old one.

Please write me the name of it at Chicago.

Respectfully
Geo. H. Bliss

Meritini
Mechanic

CONSULAT DE BELGIQUE,
ST. LOUIS, MO.

Rudolph Mackwitz, Consul.

No.

ST. LOUIS, MO. Oct 25 1878

Professor Thomas A Edison
Electrician
New York

Dear Sir

By to day's U S Express I send you an electric Lolland ~~key~~ candle I have tried here in the Telegraph battery room to light it but I succeeded when I put a force of ~~200~~ Leclanche cups on. It — that thought that less cups might do — would you perhaps be ~~kind~~ enough to tell me how many leclanche cups would be sufficient to light a room 25 x 22 — I claimed bother the Telegraph Office again such experiments disturb their business

Very Respectfully
R Mackwitz

3 cts stamp

50 cells
Carbon battery

THEO: PUSKAS
1, Rue de la Bourse

Paris, le October 25th 1878

My dear Edison

I forward you enclosed a second price list from the Alliance-Machine Co. which as well as the Gramme machine has got the grand prize at the Exhibition here.

They are, as far as I understand, the only two companys, who make electro-magneto-machines here, I have sent to ten different firms here without obtaining any further information but will continue the search and send you what I may get.

Very truly yours

Th. Puskas

[ENCLOSURE]

Cie PARISIENNE D'ÉCLAIRAGE PAR L'ÉLECTRICITÉ
25, rue Dufrénoy, — Passy.

Machine à 1 disque de 8 bobines

BATIS EN ACAJOU

Cette Machine se meut à bras.

Elle est spécialement destinée aux cabinets de physique.

Elle donne à volonté des courants alternatifs ou des courants continus.

Elle remplace avantageusement les piles pour toutes les expériences de cours et de laboratoire.

PRIX : **1,000** Francs

Cie PARISIENNE D'ÉCLAIRAGE PAR L'ÉLECTRICITÉ
25, rue Dufrénoy, — Passy.

Les Machines de l'**Alliance** étant à courants alternatifs, l'usure des charbons est égale et, pour tous les deux, se fait en pointes; par conséquent, pas de lumière perdue.

C'est sur les machines de l'**Alliance** que M. Van Malderen a employé pour la première fois les courants alternatifs à la production de la lumière.

Les Machines ne s'échauffent pas et peuvent, dès lors, fonctionner un temps quelconque sans changements dans l'intensité du courant.

L'entretien et les réparations sont nuls. Ces qualités les ont fait adopter par les phares :

Elles éclairent les deux phares de la Hève, près du Havre, depuis 1865.

Elles fonctionnent également aux phares :

Griz-Nez,
Odessa,
Embouchure de la Néva, } Russie.
Port-Saïd,
Pola (dans l'Adriatique),

A l'Exposition française des phares (classe 26, dans le Parc).

La Compagnie Parisienne d'Éclairage par l'Électricité se charge de TOUTES INSTALLATIONS D'ÉCLAIRAGE, en France et à l'Étranger.

Elle se charge également de TOUTES FOURNITURES concernant l'*Éclairage Électrique*, tels que :

Régulateurs de tous systèmes;
Fils Conducteurs, Câbles, Charbons naturels ou artificiels, Suspensions, Lanternes, etc., etc.

Cie PARISIENNE D'ÉCLAIRAGE

PAR

L'ÉLECTRICITÉ

Société Anonyme, au Capital de **5,010,000** Francs

PROPRIÉTAIRE

des

Machines Magnéto-Électrique de l'ALLIANCE
Système NOLLET
Perfectionné par M. VAN MALDEREN
Ingénieur de la Compagnie

Médaille Bronze, Grand Mérite, Londres, 1862.
— Or, Société d'Encouragement, 1860.
— Argent, Paris, 1867.
— Or, Angers, 1868.
— Bronze, Vienne, 1874.

SIÈGE DE LA COMPAGNIE ET ATELIERS :
25, Rue Dufrénoy, 25. — Paris-Passy.

Paris. — Imp. H. Lutier, 36, rue Delaborde.

[ENCLOSURE]

Cie PARISIENNE D'ÉCLAIRAGE PAR L'ÉLECTRICITÉ
25, rue Dufrénoy. — Passy.

Machine à 4 disques de 16 bobines

BATIS EN FONTE

Pouvant donner à volonté :

1 foyer de 300 becs carcels.
2 foyers de 150 —
4 foyers de 70 —

Les foyers sont complétement indépendants les uns des autres.

La force motrice nécessaire est de 3 chevaux vapeur.

PRIX : 6,000 Francs.

Cie PARISIENNE D'ÉCLAIRAGE PAR L'ÉLECTRICITÉ
25, rue Dufrénoy. — Passy.

Machine à 3 disques de 16 bobines

BATIS EN FONTE

Pouvant donner à volonté :

1 foyer de 200 becs carcels,
ou 3 foyers de 70 becs carcels.

Les foyers sont complétement indépendants les uns des autres.

La force motrice nécessaire est d'environ 2 chevaux vapeur.

PRIX : 4,600 Francs.

Cie PARISIENNE D'ÉCLAIRAGE PAR L'ÉLECTRICITÉ
25, rue Dufrénoy. — Passy.

Machine à 4 disques de 8 bobines

BATIS EN BOIS

Cette Machine, d'un transport facile, sans démontage, peut donner un fort foyer de 150 becs carcels.

La force motrice nécessaire est de 1 cheval 1/2 vapeur.

PRIX : 2,000 Francs.

Cie PARISIENNE D'ÉCLAIRAGE PAR L'ÉLECTRICITÉ
25, rue Dufrénoy. — Passy.

Machine à 3 disques de 8 bobines

BATIS EN BOIS

Cette Machine, d'un transport facile, sans démontage, peut donner un foyer de 100 becs carcels.

La force motrice nécessaire est de 1 cheval vapeur.

PRIX : 1,500 Francs.

[ENCLOSURE]

SOCIÉTÉ

DES

MACHINES MAGNÉTO-ÉLECTRIQUES GRAMME

HIPPOLYTE FONTAINE, administrateur, 52, rue Saint-Georges

PARIS

LUMIÈRE ÉLECTRIQUE

Les machines Gramme produisent de l'électricité par le mouvement d'un électro-aimant circulaire entre deux pôles magnétiques. Elles donnent une lumière blanche, économique, qui convient très-bien pour l'éclairage des ateliers de construction, des teinturieries, des forges, des chantiers à découvert, etc. *Une machine ne donne qu'un seul foyer, exige 2 chevaux 1/2 de force motrice, et consomme pour 0 f. 25, par heure, de crayons électriques. La lumière a une intensité de 500 becs carcel.*

Un appareil complet se compose d'une machine, d'un régulateur et d'un câble en cuivre renfermant le régulateur à la machine. En France, l'installation d'un foyer électrique, tous frais compris, revient à environ 2.200 fr.

Le nombre d'appareils à employer dans un établissement dépend de la nature des travaux, de l'intensité lumineuse nécessaire et de la disposition des locaux. Lorsqu'on possède un moteur de force suffisante et qu'on a besoin d'au moins 20 becs de gaz dans une même salle, la lumière électrique est économique.

Pour un atelier d'ajustage, de tours, de machines outils, il faut un appareil pour 500 m. carrés

Pour un tissage, une filature, une imprimerie, ... 1.000 —

Pour un quai de manutention, un atelier de montage, ... 2.000

Dans un chantier de travaux publics, un seul foyer permet de travailler sur un rayon de 100 mètres, ce qui correspond à une superficie de plus de 3.000 mètres carrés.

L'économie n'est pas la seule chose à considérer. *La lumière électrique est très-hygiénique, car elle laisse à l'air son oxygène; elle facilite beaucoup la surveillance des ouvriers et des machines, augmente la production du travail, permet d'exécuter la nuit, comme en plein jour, certains travaux d'ensemble ou de précision et conserve aux ouvriers leurs vitesses les plus délicates.*

Il existait au 1er mai 1878, 503 applications de la machine Gramme à l'éclairage des locaux industriels. Partout on était très-satisfait de son usage.

Parmi les sociétés nous citerons :

Les établissements Cail, Cavrot, Fives-Lille, Claparède, Bourron, Menier, Sautter et Lemonnier, Jeanne Deslandes, de Quillacq, Weyher et Richemond, Daudet, Convenant et Herpin, la fonderie et la direction d'artillerie de Bourges, les forges de Bessèges, Funel et Fourchiamault, les teinturieries Hannart et Guaydet, les filatures et tissages Grégoire frères, Manchon, Ricard, Baudot, Ve Dieu-Ohry, David Trouillet et Adhémar, les gares de la Chapelle, de Bukarest, de Bruxelles, etc., etc.

[ENCLOSURE]

GALVANOPLASTIE

La machine Gramme est également employée à l'affinage des métaux et aux dépôts galvaniques; dans ce dernier cas, elle exige peu de force motrice et donne un bon dépôt très-régulier et très-adhérent.

Le nombre des applications en galvanoplastie est de 108 machines Gramme.

Voici les noms de quelques industriels qui s'en servent :

MM. Œschger et Mesdach ont dans leur usine de Biache une machine Gramme, avec laquelle ils traitent 240 kilogs de cuivre par jour; le résultat est double : d'une part, ils retirent les parties d'or et d'argent contenues dans le cuivre, d'autre part, ils obtiennent du cuivre chimiquement pur.

MM. Christofle et Cie, à Paris, ont 14 machines Gramme pour le dépôt des métaux précieux. La Société du Val-d'Osne, à Paris, l'emploie pour le cuivrage direct des fontes par le procédé Gauduin, Mignon et Rouart. MM. Bocuzat, de Lyon, ont 20 machines pour leur tréfilerie d'or et d'argent. MM. Folie et Denaimur, à Paris, l'en servent pour des dépôts de nickel; MM. Davilliers, à Lima, possèdent 2 machines pour le traitement des minerais d'or et d'argent. M. Ranvier Paris, emploie la machine Gramme pour sa fabrication de zincs d'art, etc, etc.

Tarif au 1er Juillet 1878

LUMIÈRE	
Machine Gramme, type d'atelier	1.500 »
50 becs	800 »
Régulateur électrique	450 »
Charbon de cornue, le mètre	2 25
Charbon Gauduin, le mètre	2 50
Lanterne garnie de verre dépoli	100 »
Treuil Ménier, avec suspension	100 »
Conducteur ordinaire, le mètre	1 »
— pour grandes distances, le mètre	2 »
— double pour suspension, le mètre	4 »
Commutateur	20 »
Porte-charbons de rechange, la paire	10 »
Balais de rechange, la paire	10 »
Compteur de tours Deschiens	50 »
— Sainte	25 »

GALVANOPLASTIE	
Machine n° 1	3.000 »
— 2	1.500 »
— 3	750 »
Galvanomètre sans fil	240 »
Brise-courant	100 »
Balais pour machine n° 1, la paire	30 »
— 2, —	10 »
— 3, —	5 »

Les machines n° 1 peuvent déposer 1 k. d'argent à l'heure, les machines n° 2, 0 k. 400 et les machines n° 3, 0 k. 150.

DÉMONSTRATION	
Machine de 6 éléments Bunsen	700 »
avec pédale	880 »

EMBALLAGE 3 0/0 DE LA VALEUR

PAIEMENT AU COMPTANT SANS ESCOMPTE.

La nouvelle machine Gramme, qui alimente les bougies de M. Jablochkoff convient pour les éclairages luxueux. On peut la voir fonctionner à l'Exposition dans le pavillon de la Société générale d'électricité. Pour tous renseignements, s'adresser à M. HIPPOLYTE FONTAINE, rue Saint-Georges, 52, Paris, de 2 heures à 4 heures, ou par correspondance.

Paris. — Typographie A. LANGELIER et LARGUIER, 13, rue de l'Échiquier.

OFFICE OF

CHARLES S. WELLS,

Fancy Wood Turning and Sawing of All Kinds.

Fancy Fixtures for Gun Makers and Dealers a Specialty. ~~Johnson's Patent~~

~~Fluted Screw Driver and Tool Handle.~~

Butternut File Handles, Black Walnut File Handles, Bass Wood File Handles, Cherry Wood File Handles, Beaded and Plain Hickory Handles, Rosewood Screw Driver Handles. Tracing Wheel Handles, Pocket Hammer Handles, Cap Extractor Handles, Chisel Handles of All Kinds, Mallets, Engineer's Handles, Chaser's Hammer Handles. All Cased Leathers, Wooden Boxes, Wooden Pegs, Wooden Screws, Gun Stocks a specialty, Auger Handles, Tuning Glass, Drum Sticks, &c. Slippers and Leathers, All Styles, Axe Handles, All Kinds, Chair Legs, All Styles, Parlor Quilt Gloss, Table Mop, Pool Bumpers, Fancy Whiffletrees and Neck Yokes, Cottage Seat Sticks, Paper Racks, Buttons Handles, Rosettes, Bracket Work, Fancy Tubes for Tobacco Bags, Dental Tool Handles, All Kinds, Shuttle Quills, for Loom Bobbins, for Cotton and Woolen Factories.

~~P. O. JOHNSON, Sup't~~

All orders should be addressed to the Proprietor. C. S. Wells & Co. ~~Cor. Goodyear and Dummer Streets.~~

P. O. BOX, 872. 19 Audubon St. New Haven, Conn. October 26th 1878

Thomas Edison Esq.
Menlo Park N.J.

Dear Sir

We notice among your many valuable inventions, one for lighting by electricity, which will eventually supersede the use of gas. In this connection we desire to call your attention to an invention for conveying light through a tube or tubes, and throwing it by reflectors properly arranged to the points required; a patent for which was issued to Chas. S. Wells dated June 4th, 1878 for a full description of which we refer to the published heads of patents, to which you no doubt can easily have access. There is believed to be much merit in this invention, that it can be advantageously used in factories and other buildings, and is admirably adapted to lighting Rail Road Cars, from its great Safety, convenience, and cheapness as compared with present modes, and has received the unqualified approval of R.R. men who have seen it. No attempt has yet been made to use the invention except so far as to test its entire practicability,

The patent referred to is now controlled by the firm of C. S. Wells and Co. and they would prefer to dispose of rather than to develope it.

If you should upon investigation think as we do, that the points covered by this patent can be used advantageously in connection with, or supplementary to your inventions, we should be pleased to open negotiations in regard to it.

Yours truly

C. S. Wells & Co.

New Haven Conn.

Mr. Norman
Office of
C. S. Wells & Co.
Aug. 6th 78

If you can get up an engine that will beat present machine

New Berry Wyli Co Ill Oct 28th 1878

Prof T. A. Edison

Dear Sir

I see by the papers that you are experimenting with the electric light. Well I am experimenting with Magnetic Machines with a view to improve and use that power for a similar purpose, have been experimenting for years. We will when you get around to the machine I think you will find that it needs greatly improving as much of the mechanical power is wasted by generating heat in the coils, and cross induction currents also. I send sketch of a machine I am now constructing in which I expect to greatly obviate this difficulty. Perhaps we can be of mutual benefit by this.

In winding the coils I wind each strand in itself like a watch spring, this in a great measure does away with the heating caused by cross induction currents. You will also see by the drawings that

The poles of the Magnets and Helix are of this shape that in rotating the lines of magnetic force are broken at right angles, this as you know increases the strength of the current.

Fig 1

Fig 2

Improved Magnetic Electric Machine, Consists of solid cast iron frame, (A. A) the electro magnet (H) Helix revolving between poles on shaft (SS) driven by pully (P) all seen in Fig 1

Fig (2) shows the form of ends of poles of magnet and helix, (The part in fig 2 marked (C C) shows the iron cut away for an inch or two, When the parts marked B B, come opposite they almost touch as they revolve they come opposite, C C which breaks the magnetic force of power and as you will by this peculiar form at right angle, Really this machine simply an electro magnet with its own poles revolving

Yours Respectfully

Willis Knickerbocker

P.S.

I would be pleased to have you offer any suggestions looking towards improving the Magnetic machine

Yours &c

H. K.

W. M. DEUTSCH. ALFRED N. LEWIS.

BACKUS WATER MOTOR Co.

POWER GIVEN FOR ALL KINDS OF LIGHT MACHINERY FROM ONE-EIGHTH TO SIX HORSE POWER.

FACTORY,
Cor. Hamilton St. & N. J. R. R. Ave.,
NEWARK, N. J.

NEW YORK OFFICE,
No. 323 Broadway.

Newark, N. J., October 27th 1878

Thos A. Edison Esq
Menlo Park. N.J.

Sir We have this day mailed you circular of our motors and desire to call your attention to them as a power to work your electric machines for electric lights. Our motors are simple in construction, no complicated parts, nothing to wear but the two journals in which the shaft turns, and develope from from 1/8 to 6 H.P. depending on the pressure of water, using fifty only from 1/16 to 1/16 of an inch diameter and really use but little water used.

Should be pleased to hear from you in reference to them and would like to make a test, if could be arranged, on your machine.

Awaiting your pleasure and favors we are

Yours truly
Backus Water Motor Co

~~J. B. EDWARDS,~~
DEALER IN
~~Watches, Clocks, Jewelry, Silver Ware,~~
~~Stationery, Picture Mouldings & Glass,~~
~~Guns, Pistols, Musical Merchandise, &c.~~

Laceyville, Pa., Oct 28 1878

Thos A Edisons
Menlo Park N.J.

Dear Sir

Can you or the Electric Light co, furnish a Machine that can be run by hand power, sufficient to light an ordinary church, or Hall by electricity. If so consider this an application for such a Machine. It looks reasonable that such a light to accompany an exhibition of the Phonograph would be desirable. Can I get a standard Machine yet (Phonograph) and what will be its cost

Respectfully
S M Camp
Exhibition Phonograph No 22

Western Electric Manf'g. Co.,
Chicago, Ill.
Electro-Medical Department,
Eastern Supply Depot,
DR. T. CLELAND,
Agent.
No 207 BROADWAY,

New York, Oct. 29 1878.

T. A. Edison, Esq.,

Dear Sir,

Mr. J. P. Barrett Supt. of the Chicago Fire Alarm Telegraph is in town and is very anxious to see you on business pertaining to your Electric Light.

Can he do so? When shall we come over? I have impressed upon his mind the necessity of making the interview short! How's the baby? Congratulations to Mrs. E.

Yours Truly
T. Cleland

Chelmsford Oct 29th 1878

Dear Sir:

Your favor in re the cost of the Electric Light was duly received. The invention seems to be awaking quite a stir in scientific circles and particularly among Gas Companies. I had arranged to put in Coal Gas Works at Sherbrooke P.Q. next Spring and already parties who proposed subscribing to the enterprise have written to me enquiring about the light and its probable success.

Noticing by the "Weekly Sun" that a Stock Company has been organized for the Electric Light which indicates that some parties have had it explained satisfactorily to them.

Aside from assisting on the farm this I have nothing particular to do till Spring and if I can make myself useful to you or the Company in experimenting or in any way connected with ~~the Gas Light~~ the Artificial Light

hope I will not make it expensive for you, and in case of success I can advance your interests in Canada where I am well known.

Apology I am Begging an early

My excuse

Yours

Faithfully W. Robson

To Prof. T. A. Edison,
Menlo Park
N.J.

Chelmsford Mass
Richardson
Office

G. K. LANSING, Manager. ALLEN & DAM, Proprietors.

ASTOR HOUSE,

BROADWAY & VESEY ST.

ON THE EUROPEAN PLAN.

New York, Oct 30th 1878

Thomas A. Edison Esq.
Dear Sir,

The undersigned, and two gentlemen associates — representing the Western Electric Light Co. of Chicago, have come all the way from Chicago for the express purpose of seeing you, and conferring with you in regard to your new light. We are well aware of its existing condition but have full faith in your ability to bring it to perfection. We are extremely desirous to see you personally, if but for a few moments, and having spared time for merely a visit, — having heard of your illness — we shall be greatly disappointed if we are compelled to

~~return~~ return home might an interview

One of our party, Prof Barrett has devoted much time in experimenting with the Electric light and think you yourself is an old telegrapher

We do not care to see the light itself, unless you choose to show it. and promise to make our call a very brief one. We should like to leave for Chicago on Sat. morning next. and if you can grant us an interview before that date it would be very gratifying.

Hoping in any event that this note may find you in comfortable health

I am

Most respectfully

Robt A. Tooker M.D.

St. Charles Hotel
New Orleans La

Western Electric Manf'g Co.,
Chicago, Ill.
Electro-Medical Department,
Eastern Supply Depot,

DR. T. CLELAND,
Agent.
1265 BROADWAY

New York, Oct. 30 1878.

Prof. Thos. A. Edison,
Menlo Park

Dear Sir: Yours of the 29th rec'd. The Gentlemen from Chicago all stop here as representatives of a Company just formed to handle your electric light in the west, and fear that they must transact their business direct with you. They are very anxious to see you. The party consists of Mr. J. P. Barlett, Dr. Tucker & Mr. Sullivan, and they are out from Chicago expressly for the purpose. Can you see them during the next four or five days if they will lay over?

Yours Truly,
T. Cleland

OFFICE HOURS—7 to 9 A. M., 1 to 3 P. M., and 7 to 10 P. M.
At Ky. Infirmary for Women & Children 8½ to 9½ P. M.

OFFICE OF GEO. W. GRIFFITHS, M. D.

S. E. Corner 11th and Jefferson Sts.

Louisville, Ky. Oct. 30th 1878

My dear Sir:
Your Oct. 26th 1878
in reply to mine
of Saturday
In reply to your
query I then to say
that I am of the
opinion that the Mill
on the Indiana Shut
down stop in consequence
of the intermittent stages
of our river,
During the year
1860 & 1861 I was U. R.

ordered
and his Son made
exhaustive Surveys to
ascertain the development
of the Water Power on
the Falls for Motive
power, Mr. R. T. Scouden
on present Mr. Esquire
has present all of
the Maps & Notes prepared
during these Surveys, You
may address him for
information. I thank you
for your prompt reply
Hope that Mr Eccles
may soon be restored to
health

Yours truly

N. L. Griffin Esq
Private Secy

Geo. M. Pigott

Geo. M. Pigott
Washington D.C.

Cable address. via Eastern
"Tungstan London"

110, CANNON STREET,
LONDON, E.C.

Nov 4th 1878

Mr Edison
Electrician
Menlo Park

Sir,

Metallic Tungsten

I am informed on good authority that the above comparatively infusible metal will be of important use in analogy mating with or covering the carbon points. Mess.rs Lemoine Bros have sent for a sample with the intention of trying the same. You are doubtless aware of the qualities in connection with steel. for which I am selling large quantities. price by the cwt £14: f.o.b. Liverpool. Cash on presentation of B/L at English Bankers. Soliciting your consideration of the above

I am Sir
Yours obed.y
Thomas Williams

Nov 5-78

Chatterton Conn Nov 5 1878

Mr. Thomas A. Edison

Dear Sir

After having passed through our financial misfortune after another, a few months since, I inherited a few thousand and invested it in Gas Stock. I had just read about the experiments in Electrical Light, then you can imagine how an elderly woman in feeble health may fall when thinking she has a few hundreds income, with which to purchase the necessaries of life she suddenly finds her ship at sea again & in danger of being lost. I write this letter to you to beg you will write to me immediately, that you are sure, if you are sure

of the Electrical light — superseding the use of Gas and consequently lessening the value of Gas Stock. To what I can suppose of my Stock

Yours Respectfully,
M. M.

Please address your letter to
Mrs. Hungerford, Marseilles
Middletown
Conn

Nov 5 78
Answ Nov 7 78

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

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To prevent mistakes and disputes, it is agreed that a mistake in transmission or delivery of a message shall be repaid or corrected if the error is brought to the notice of the Company within one week after the message is filed with the Company for transmission, or delivery of a message shall be repaid or corrected if the error is brought to the notice of the Company within one week after the message is delivered, or within one week after it should have been delivered, and that no other compensation will be allowed for mistakes or delays in the transmission or delivery of UNREPEATED MESSAGES and in delivery of REPEATED MESSAGES.

This company is not responsible for the contents of UNSIGNED MESSAGES.

A. B. BREWER, Sec'y. WILLIAM ORTON, Pres't.

Dated New York 11/6 187/

Received at

To T. A. Edison

Menlo Park N.J.

Whereon I see your representation in reference to Electric light

W. H. Van Slick

115 North St

16 paid

J. M.

READ THE NOTICE AT THE TOP.

T. A. EDISON,

5—

Menlo Park, N. J., Nov 6 188

W H Van Sicle
110 Wooster St
NY

Call on Mr G P Downey
No three (3) Broad St

T A Edison

12 Collect

1:04 pm
9 mk

Brooklyn NY Nov 6 78

Robt Craybour

"Vapor motor"

Acad Nov 8 78

55 Wilson St. Brooklyn E.D.
November 6. 1878 N.Y.

The undersigned, a practical & theoretical mechanical Engineer of mature years and experience, has for years made it a specialty to produce a convenient, economical and superior motive power, — and is now enabled to present an engine as safe and simple as the simplest air engine, as powerful as the steam engine, far more economical than either; — and devoid of the danger of explosion.

Believing that the economical subdivision of Electric Light, for dwellings particularly, will largely depend upon the ability to make the wires as short as possible, — with the aid of a suitable small power, — I draw your attention to mine.

A motor for that purpose requires to be cheap & durable, inexpensive in maintenance, — simple enough to do without skilled management, — without dead points so as to produce an even power, — and one that can be left to itself as much so as a base burning heater or stove. —

As definite arrangements regarding the control & ownership of this motor are to be concluded within, say, few days, I would like to confer with you ere entering into binding obligations.

Respectfully
Robert Greenhalgh

Thomas A. Edison Esq.
Menlo Park, N.J.

P.S. I will be pleased, by drawings &c. to explain this motor, of which I am sole owner. References on interview.

Allow me to refer you to some articles from my pen on engineering: "Van Nostrand's Engineering Magazine" p. 469 to 479 - Nov. 1871.

Sc. American p. 116 Febr. 22 - 1873

American Artisan p. 182. Sept. 20. 1873

55 Wilson St.
Brooklyn E.D. N.Y.
November 7. 1878

Thomas A. Edison Esq.

Dear Sir!

This morning I mailed to you a communication referring to the application of my "Vapor Motor" to Electric Illumination.

Enclosed please find a crude estimate of the cost.

Respectfully
Gott. Greuzbaus

[ENCLOSURE]

Estimate

of the Cost of using small "Vapor Motors" in Dwellings for producing Electric Illumination. -

The estimate is based upon the assumption that such a motor of two horse powers on the brake, costs $250.00, and has a life of 12 years before requiring renewing of parts. The portions still good at the end of that time being an equivalent for the required repairs during the 12 years.

The interest on $250.00 at 6% is covered by 4½ cents per day during 333 days of the year, or $15.00 a year. And another 4½ cents per day will accumulate $250.00 to renew the motor as aforesaid at the end of 12 years.

Suppose the machine to be run 12 hours a night, giving out 1 H.P. & producing light equal to about 20 gas jets of 12 candle power, — enough for two houses. (This is 1/4 of the estimate of one H.P. per light of 1000 candles, produced by large machines) The required fuel would be less than 24 #. coal, costing 6 cents. Total daily cost 15 cents, or $4.50 a month for two houses. — Assuming the extravagant estimate that the machine cost $500.00, and that the fuel be doubled, producing two H.P. using 12 cents for coal, and giving light accordingly for four houses, the coal would still be the same, — $2.25 per house a month. To this of course must be added the interest &c. on the dynamo-electric machine, wires, & lamps. The figures assumed are extravagantly high; and the estimate of the amount of light produced perhaps far too low.

Independent of the cost of electric machine, wires & lamps, (from which the cost of gas fixtures in a house must be deducted) — The cost per usual

[ENCLOSURE]

dwelling would probably not reach the half of the estimate given.

Aside of the illumination, the motor would be on hand to do other work all day along, — in private houses elevating water for the recently introduced economical hydraulic Elevators; and in summer cooling and ventilating refrigerators, pantries, rooms, through the expansion of compressed air, — saving the cost of ice. (Each machine has a compressing pump attached to it).

Robert Creuzbauer
55 Wilson Str. Brooklyn E.D. N.Y.

Robt Creuzbauer
Brooklyn E.D.
Estimates of Cost of H.P.
Day and Night Work

THEO: PUSKAS
1, Rue de la Bourse

Paris, le November 9th 1879

My dear Edison

I forward you enclosed a (translated) copy of a letter sent me by the Editor of the "Correspondance scientifique", Mr Farey whom I have asked for information about magnets - electrical machines.

I have asked Count Du Monceel for particulars about the meritens machine; as soon as I get them I shall let you know.

Very truly yours

Theo. Puskas

[ENCLOSURE]

THEO: PUSKAS
1, Rue de la Bourse

Paris, le about Nov 8 74 1880

My dear Sir!

I am very glad to be agreeable to you in giving you whatever information I possess in regard to magnetic-electrical machines.

As far as their worth is concerned the opinions are very much divided. The Société Générale d'Electricité (Jablochkoff process) praises highly the modified Gramme machine. Those who are regulators prefer the "alliance" machine, which, in spite of its defects, as weight and price, gives very constant and energetic currents. Now yesterday M. du Moncel praised very warmly a new electro-magnetic machine constructed by M. de Meritens; it seems that one of those machines with a single horse-power can feed four electric lights whilst with the Gramme machine it takes one to one and a half horse-power to feed one single light of the Jablochkoff system.

You know M. du Moncel's competency in these questions; if you wish it I will ask M. du Moncel for M. de Meritens address, whom I know to be in Paris making experiments with his machine every Wednesday.

[ENCLOSURE]

A great deal is said about the electro-magnetic Machine Lontin, but I don't fancy it much. There are several other machines but they are only more or less happy imitations and at all events without great value, the Gramme and Alliance machines being the two most in favor in France.

Believe me etc.

Signed Marey.

Secretary of the Correspondance Scientifique.

Paris.

Letter from Marey to Edison in regard to Electro Magnetic Machine

Received Nov 8 78

Office of City Engineer,

Room No. 42, City Hall,

Louisville, Ky. November 9th 1878

Mr. F. A. Eddison
Menls Park N.J.

Dear Sir:

As the surveys made by me and data found therefrom, dated back several years. I consider it prudent to compare them with the later experience of our falls millwrights. The result however only verified the earlier notes. There are two mills located on the falls, one at the head and the other at the foot. The first a flour mill and the second a cement mill. The flour mill is operated by three turbines of 5, 9 & 12 feet diam. respectively. The average head against the wheels is almost 8 feet. A twelve foot stage of water at the head of the falls destroys the power. The average getting lost per year from freshets at the head of the falls is about 60 days. Steam power is provided to meet such emergency. A breast wheel is used at the cement mill. Average time lost from freshets at the foot of the falls is 90 days. Steam is also employed at the cement mill. Very Respfly

R. T. Stevenson, City Engineer

Blank No. 1. Official Extracts and sent to Nyk Nov 12-78

THE WESTERN UNION TELEGRAPH COMPANY.

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A. B. BREWER, Sec'y. NORVIN GREEN, President.

Dated Clarksville Tenn Nov 7 1878

Received at

To Thos A Edison

Some friends desire that I write to you requesting you to give me terms on your Electric light machinery soon as perfected. Our town about 7000 inhabitants, we will form a Company and I am to be electrician of the Concern if I can secure the monopoly, I am fully up and posted on your and other late inventions, and can set up "gnads" or anything else you may invent after reading up on it.

This requires no reply. Tell you get a big ready on receipt of this.

READ THE NOTICE AT THE TOP.

I would suggest a time meter or meters from which the burner wires diverge to be controlled by the turning on and off of each branch or burner, when turned on to a burner the current through a magnet releases the clock work = this would require a separate train for each branch wire in a house = unless a schedule of prices per hour is arranged according to the number of lights in a building whether used or not and one time meter set up for each building. Hands and disks can be arranged for minutes, hours, tens of hours; and hundreds of hours.

J. P. Pearce

Phila Nov 10.78
Prof Barker

No ans
ans'd by wire

University of Pennsylvania
Philadelphia, Nov. 10. 1878.

My dear Edison:—

Reached home all right last night. Have seen Mr. Pugh, the manager of the lecture course, today, and he says if you can promise me your new light in 30 days, he thinks it would be worth while to postpone my lecture for 4 months in order to get it. I write to know therefore whether you will promise me several of those lights for a lecture about the middle of December and also whether you will agree to come over and help me run them."

You will see, that I am very anxious to give the lecture importance by bringing out what everybody is so much interested in. Please tell me frankly exactly how you feel about the matter yourself. When everything is secured, I suppose the Company will not object. As we must announce any postponement tomorrow (Monday) please ask the Philadelphia office to give you the University on No. 8. and then we can talk on more direct.

The pictures are here, but the boxes have not yet come. Many thanks.

Yours cordially
George H. Parker.

THEO: PUSKAS
1, Rue de la Bourse

Paris, le November 11th 1879

My dear Edison,

Herewith translation of M de Monnel's reply to my inquiry about the Meritens machine.

"M. de Meritens machine gives indeed more satisfactory results than any other. With a force of 72 kilogrammeters, that is one horse power, it will light three Jablochkoff candles, and with a regulator of electric light the carbons can spread 6½ centimetres without going out. It is an electro-magnetic and not dynamo-electric machine, with only 8 magnets and one single disc with 16 sections. I have carefully described this machine in the 'Electricité' of 28 August 1879. You can send a copy to Mr Edison, but it would be better to go and see the machine working yourself. Every Wednesday night experiments are made 53 Rue de la Santé. You can present yourself in my name and you will be well received."

Believe me &c —

I shall go and see the machine on Wednesday next and will write you fully then.

Very truly yours

Theo. Puskas

The paper mentioned has been forwarded to you among the back numbers of the 'Electricité' sent you last week.

Electric Light - 1878

MAYOR'S OFFICE

Confidential

San Francisco, Nov. 11th 1878

Thomas A. Edison Esq
Dear Sir:

I have read the history of your inventions with much interest. and I trust that Electric Light will be improved by your labors. I am inclined to think that our cities will be illuminated by this light at no distant day and therefore I consider it a matter of immediate practical importance I have long thought that municipal corporations are too much at the mercy of those who supply them with articles of necessity like water and light. and that they should own as far as possible the sources

MAYOR'S OFFICE

San Francisco, 187

of water supply and the means of il=
lumination or anything else which is
necessary and which it would be a
saving to the people to obtain by
purchase

I therefore desire to open a cor=
respondence with you on the subject
of supplying this city with Electric light
with the object of obtaining from you for
the city, when you are ready to sell it,
the exclusive right of using the light
within its boundaries, the corre=
spondence to be confidential

Very respectfully Yours
A. P. Bryant
Mayor of San Francisco

T. A. EDISON. 2 11 a m

Menlo Park, N. J., Nov 12 1878

Cable

Edison menlo Park

Do you actually accomplish increase and decrease electric light each burner independently Does alternation waste current reply paid

Barrett
London

19 Paid
ma 4

T. A. EDISON. | Ms

Menlo Park, N. J., Nov 12 1878

Cable

Barrett London

Yes. No waste

Edison

6 Collect

11½ 6 m
4 ma

1

N.Y. 14

9.20 A.M.

Edison Menlo Park

Does altering one affect other lights

Same circuit reply paid five words

Barnett London

Barnett London
not the slightest

13 paid
Mal

Stollet
Menlo Park Nov 14.18
9 W 2 Nw
9 Ma

J. City 14-78

Opr Uniontown NJ

There is a car of machinery from Boston in J City consigned to E Atkinson for freight chgs Eighty (80) dollars which must be paid before car can go forward do you know such a party if so please notify him and tell him to call on E Butler agent J City and pay chgs so car can go forward

Office of **Whitneyville Armory,**

ESTABLISHED IN 1798.

Whitneyville, New Haven, Conn. Nov 16 1878

Mr Edison
Menlo Park
Dear Sir -

If you have any small machinery to build connected with your Electric Light enterprise the same sort of work or fixtures is to be made in large quantities we may be able to do for you to advantage - We have ample machinery, power & skill -

Yours very Respy
Whitney Arms Co
By Eli Whitney Pres

Will keep in mind & prepared to consider

DR. A. G. NYE,
Purifier & Worker of Platinum,
No. 1 WASHINGTON STREET,
WEYMOUTH, MASS.

PLATINA Scraps and Filings fused and wrought into plate or wire for sale at $1.50 per ounce.

Nov 18th 1879
Weymouth Mass

Mr Edison

Dear Sir, I have understood that there is trouble in the substance used to produce the Electric Light about its wasting away. I think I have something that will stand the test. If you would like to try it please let me know and I will send you a sample

Respectfully Yours

A. G. Nye

~~send Wesson~~

H. S. Woodbury

REAL ESTATE & MORTGAGE

BROKER,

No 524 ARCH STREET,

PHILADELPHIA.

Philadelphia Nov 10-1878

Prof. Thos. A. Edison

Menlo Park N. J.

Dear Sir,

I had the pleasure of meeting you at the Western Union building in New York some three weeks ago, when I presented a letter of introduction to you from Mr Henry Bentley, you then referred me to Mr Lowry in regard to my business concerning the Electric Light. I have made an application to the Company in reference to the introduction of their business, which I hope may result in mutual advantage. I have always desired to perfect my arrangements, when the invention is ready for public application.

Phila Nov 15 78
H S Woodbury
Ans. Nov 19 78

H. S. Woodbury
REAL ESTATE & MORTGAGE
BROKER,
No 324 ARCH STREET,
PHILADELPHIA.

In the meantime I would like to have an opportunity to be of use to you in the Laboratory and at the same time be=
=come in some measure posted on the matter which I hope to have the honor of assisting to bring before the public. Mr Bentley knows me well enough to vouch for my disinterested motives in this matter, and I would consider it a great pleasure to be allowed to assist you in any capa=
=city in which I could be of service.

I have assisted Prof. Baker on one or two occasions and can perhaps be of some slight assistance to you. I will be in New York in a few days and will call on you and if you can find any room in your staff for a man

H. S. Woodbury

REAL ESTATE & MORTGAGE

BROKER,

No. 524 ARCH STREET,

PHILADELPHIA.

with a practical business experience, you will confer a great favor upon. Yours very truly.

H. S. Woodbury

524 Arch St.

1. Nov 19=78

N.Y.

Edison mo

Please give approximate Cost compared gas

Barrett
London

7 Paid
Ma G

Blank No. 1.

THE WESTERN UNION TELEGRAPH COMPANY.

This Company TRANSMITS and DELIVERS messages only on conditions, limiting its liability, which have been assented to by the sender of the following message.
Errors can be guarded against only by repeating a message back to the sending station for comparison, and the Company will not hold itself liable for errors or delays in transmission or delivery of Unrepeated Messages.
This message is an UNREPEATED MESSAGE and is delivered by request of the sender under the conditions named above.

A. R. BREWER, Sec'y. WILLIAM ORTON, Pres't.

Dated New York. Nov 21 1878

Received at

To Edison
Menlo Park NJ

Reply paid five words

Barrett
London

5 pd

READ THE NOTICE AT THE TOP.

NY Nov 18.78
Prof Riley
Quot Nov 22 78

New York
87 Park Row
Nov 21st 1878

My dear Sir

I intend as per Card inclosed to give the subject of electric lighting a treatment with as little technicality as possible and to consider the practical as well as the scientific issues.

You, self or any one from your establishment will be heartily welcome at the meeting.

It would afford me great pleasure if you would though myself or otherwise communicate to the meeting some of your advanced ideas.

I believe that Electric

lighting as it is to day is demonstrated a success, and that in the near future it will be the most important system of artificial illumination.

I am
Very Respectfully
Yours &c
Charles A Seeley.

T. A. EDISON.

Menlo Park, N. J., Nov 22d 1878

1 Cable

Barrett London

Very much Cheaper

5 Collect

Menlo Park N.J. 22d

#10.00 G. M.

Prof Barker
Phila

UNIVERSITY OF PENNSYLVANIA.

Philadelphia, Nov. 22d 1878.

My dear Edison:—

I have been so busy with my lecture that I have not had time to write and thank you for the things you were so kind as to send me and which I found here on my arrival home from Menlo. They will afford me some excellent illustrations in my lectures to my classes.

As to the lecture, everybody says it went off well, though I was not satisfied. Not less than six different things which I had expected to have, disappointed me. The Brush people for example, after asking a month

before the lecture, the privilege of putting in one of their machines and lighting up the Academy for me, and after several conferences in which all the details were arranged, sent me word 24 hours before the lecture, when it was too late to make other arrangements, that they had decided not to do anything! The Brush machine people are not, in my judgment, not always fair in their statements or scrupulous in their dealings. You are mistaken as to their lamp being the Serrin. The Serrin is a clock work lamp, better in many respects than theirs which is in principle, patterned after Brownings, though not as efficient. I have them both. Of course, all this is in confidence between us. You know probably that the Brush machine has been lately changed in its connections, so as to give a current of sufficiently high electro-motive force to run four or five lights in series, as this Wallace machine does. This looks as if they were not satisfied with their machine as it was, and so have adopted Wallace's principles. Wallace received gold medals at Boston and at Baltimore for his machine.

The fragments from bottle 49 of your mineral collection, which I brought home, I gave to one of our best chemists in the University and he pronounced it carbon, from a coke oven probably; from which it got its mammillated appearance.

As to your new light, I did not at all expect you to let me have it under the circumstances. My telegram to you was at the suggestion of the manager. I did not care to postpone.

Prof. Farmer sent to me and I suppose he sent to you the other day, a clip from the Salem Observer, containing a letter from him on electric lighting by means of platinum. He lighted his house all the month of July

1859 with platinum light and they were perfectly soft and delightful. He has lighted 42 platinum lamps in one circuit & that of a not very large machine. He has got the figures of the current strength necessary to maintain any piece of platinum at its fusing point, down to a dot. He can calculate exactly the power required to maintain a thousand of your lamps at their maximum if you will give him the resistance of one of them. Did you ever see or hear about his ingenious self-acting rheostat, with a balance governor, for preventing the fusion of the platinum? While I believe that your method is vastly superior to his, yet I think his might prove a good thing in certain circumstances.

I hope you will be ready to make your light public before Dec. 5. Prof Draper has a scientific lecture that evening and I would like to have him have one lamp.

Has any description of your new recording telephone been published? I would like to make and use one, if there is no objection. When will you have your completed? Excuse my long letter & believe me Cordially yours

Edward F. Barker

76 Madison Ave.
New York, 22nd Nov/79.

Dear Sir,

I learn with much pleasure, through various of your friends of the immediate progress of your electric light.

Were you allowed to suggest, also, as soon as you are ready to make a public display of it, doing so also at the earliest moment at Edison's Concert Garden. Mr Edison's house, it seems, is fitted up in the Garden, is therefore, at present, absolutely at the disposal of Mr Vanderbilt — of course, for lighting your works.

Your "electric light" at Edison's Garden, would draw greater than "the greatest show on Earth," — every man & woman, the whole country over, owners of G.A.S. shares, & interested in illumination will, could, & see it.

For themselves, & the display might be made, in conjunction with something else.

Could not always, yet, without a comparatively small revenue be derived, in this manner?

Yours very truly
Ward McAllister

Prof. T. A. Edison,
Menlo Park,
N.J.

Lostwithiel Eng^d
Nov 25-78

Rec^d & Talking
for reply

Lostwithiel Cornwall
England. Novr 25/78.

Mr. T. A. Edison
Dear Sir

In reply to your Letter as to the price of our insulating Compound.
We have made careful calculations and find we could supply it at £24.13.4 Per Ton. for the quality, and at £252 Per Ton the other samples of which I here enclose.
We recommend, and have been using two compounds, one containing more rubber than the other consequently they differ in price that which we use most of is the Cheapest price We of course should state particulars, and give instructions how to use it. and I think you will find that it can be put on the wire at about 20 Per Cent less than Gutta Percha

I omitted to inform you in my former Letters anything about its Inductive Capacity - it is about .0511 - which is much lower than Gutta Percha & Whitis very important. I also herewith enclose you a small piece of the wire covered with our compound and the outer one of Gero-Silicum which is new - the capillary tubes of the former being filled with wax (which we strongly recommend) not only acts as a protection of the compound, but it will be so very durable, it resists water, and not liable to decay. I firmly believe above covered in this manner will be found to be the best and most durable ever introduced. You will observe that it is flattened a little, its caused by my putting a 56 lbs weight on it and keeping it there for 48 hours, as a test. I really believe your good judgement and keen eye will quickly perceive the value of it. Hoping you may be the first in America to adopt it & wishing you every success in your valuable discoveries I am &c &c

Yours very truly
Fred'k Vallings

P.S.

You will not find any Gutta Percha in any of the samples I have sent you

G. K. LANSING, *Manager.* ALLEN & PAM, *Proprietors.*

ASTOR HOUSE.

ON THE EUROPEAN PLAN.

BROADWAY & VESEY ST.

New York, Nov 25th 1878

Friend Edison —

I am very anxious to see you about Electric light, and will stop off on my way to Portland, Maine (Tuesday,) evening. Will you be at home?

Please send me a message — to the Gov's office tomorrow —

Yours truly

W. H. Wood

114 Jellerville N.J. Nov 24/82

Mr. Edison

Dear Sir

Enclosed please find Samples of our Cotton Seed, which for insulating purposes we think has no equal - being very rich - Should they use it - meeting we should be pleased to receive an order for the same. Hoping to hear from you

We remain
Your obt Servts
Cotton & Buchanan Smelters

NY Nov 28 78
Wm A Keller
Ans Dec 3d 78

by Delivery, Express Paid

"Gregmard Silver Reno Co
New York Nov 23d 1878

T. A. Edison Esq
"Menlo Park"
New Jersey

Dear Sir

I have sent you by Express, (Express Paid), a sample of the which is said has merit in for Electrical purposes, will you please examine into its merits &c.

Some of your friends wish me to send you this specimen for your consideration.

Electricity Gets uses are in its infancy, please tell me how soon you think this is worthy of consideration. Yours Truly

W. A. Keller
7-9 Storm St

MAYOR'S OFFICE

SEAL OF THE CITY AND COUNTY OF SAN FRANCISCO

San Francisco, Nov 29th 1878

T. A. Edison Esq
Menlo Park N.J.

Dear Sir

Your note of Nov. 26 inst was received this morning.

My letter of 11th inst was marked "Confidential" that the correspondence might not in any way get into the newspapers. I shall be pleased if you will refer it to your attorney Mr Lawrey as you would have done if it had not been thus marked. I will write him on the subject.

Very truly Yours
A. J. Bryant

New York Nov 30th 1878

Mr A Edison
Dear Sir

An Electrician and inventor says he has an invention that will save all the Power of a Steam Engine or Water wheel and convert it into Electrical Power without any waste in the transfer He wants money and it occured to me if he could do it you might make it available in your searching after Electrical light

Truly Yrs
Geo B Walker

UNIVERSITY OF PENNSYLVANIA.

Prof Barker

Philadelphia, Nov. 30th 1878.

My dear Edison:—

I have copied for you the enclosed statements of Dr. C. W. Siemens and of Dr. Wm. Thomson upon the economy of transmitting electrical force to a distance, as I promised. I think this is the most authoritative statement yet made in the matter and the result is of vital importance to your new light. I hope you will find time to read it carefully.

I also enclose a slip which Farmer sent me the other day. You may have received one too. His calculation at the latter end is interesting and his testimony is convincing on the question of the value of the platinum light.

I also mail you with this three papers containing the translation, by my friend Spencer Borden of Fall River, of an article by the French physicist Janin, written for the Revue des deux Mondes, upon the Electric light. He gives a very good resume of the subject, but adds nothing new. It is evident that we are in advance of Europe on electric lighting.

It seems to me that the point to which Lemund calls attention, has not received sufficient consideration; i.e, that a magneto-machine is working at a disadvantage unless the resistance of the external circuit is the same as that of the machine itself. It of course follows from this that every machine has a perfectly definite external circuit to which only it is adapted. Hence the injustice for example, in the Franklin Institute experiments, in comparing the Wallace machine with an internal resistance of 4 to 5 ohms, with the Brush machine whose resistance was only from 1 to 2, by putting the same external circuit to both, that of the Brush lamp and arc, with a resistance between one and two ohms. The conditions were fair to the latter, but very unfair to the former which would have given current for four such lamps when it was working at its best, the external + internal resistances, being equal. The electro-motive force of the Wallace is nearly

double that of the Brush at the same speed. In your own experiments too, it is evident you will not get the best result, unless you previously calculate the resistance of the lamps you are to use in one circuit & give your machine the same internal resistance. Moreover I believe that you will find great advantage in using branch circuits to effect a balance, increasing the lamps in one circuit to increase the resistance and then putting in dummy circuits to diminish it again. Have you ever tried one of Wallace's low resistance machines on your lamps? they give exactly what you want, enormous quantity (heating power) and low resistances. That is the form of machine for you.

Be sure and go to Drapers. Come over in the afternoon and help us get ready. Mrs. B. is afraid Mrs. Edison will not like to see company, as she has a young baby? Cordially yours Geo. F. Barker.

[ENCLOSURE]

Discussion on transmission of Electricity to a Distance.
Inst. Civil Engineers, London, Feb. 5th 1878.

Dr. Siemens, desired to add a few observations with reference to the transmission of electric power to a distance, whether for the production of light or for the production of force. He had stated that the weight of the conductor would increase as the square of the distance; but that a proposition although true in theory, would, if it were accepted literally, be very erroneous in practice with regard to the power of transmitting force to a distance, by means of the electric fluid. In order to get the best effect out of a dynamo-electric machine, there should be an efficient resistance, not exceeding the resistance of the wire in the machine. Hitherto it had been found not economical to increase the resistance of the machine to more than one ohm; otherwise there was a loss of current through the heating of the coil. If therefore there was a machine with one ohm resistance, there ought to be a conductor transmitting the power, either to the light or to the electro-magnetic engine, not exceeding one ohm. If, instead of one ohm, one mile, it was desired to go two miles, it would be necessary first of all to employ a conductor twice the length, but that conductor would give two ohms resistance and would therefore destroy half of the effect. In doing it back to one ohm resistance, it would be necessary to put down a leaden wire, or to double the area of the first one, and in other cases there would be a waste of time, the length and the area, two or four times the weight and four times the cost. He proposed to ameliorate in the cost and in the weight of the conductor in the square ratio of the distance. But one circumstance had been lost sight of in the calculation — that, having twice the area to deal with, a double generator could be put on, and electricity enough to work two lights could be sent through the double area to a double distance. The increase that was done, the conductor was increased, for the power was transmitted only in the proportion of the square root, but there was not enough. The electric conductor did not resist the motion of electricity in the same manner as a pipe resisted the flow of liquids through it; but an ohm's resistance was an ohm's resistance for a larger as well as for a smaller current flowing through it; if the resistance was only increased by a rise of temperature in the conductor, this rise of temperature was kept down by dissipation of heat from the conductor, or considering that the longer and thicker wire would possess four times the amount of surface for the dissipation of heat, that the single and short conductor, it would be capable of transmitting four times the amount of electrical current, it might then prove be said that it was no doubt transmit electromotive force to the greater than to the smaller distances, as regarded weight and cost of conductor; a result which seemed, at first sight, but which he was inclined to put forward with considerable confidence, in comparing the two longer conductors, with one, the surface would however be increased only in the ratio of 2:1, therefore the relative transmitting power between the longer and shorter conductor would actually, speaking, be increased in the ratio of 1 2/3 or 1 : 2.83, and the longer conductor would be, therefore, than the shorter for conductor of electromotive force transmitted in the proportion of 1 : 2.83."

Sir William Thomson said Dr. Siemens had just brought forward an idea which appeared to him to be quite new and to be of great practical importance; namely, that the electric light, if there were a sufficient number of lamps, could be produced with equal economy at a great and a small distance. By way of illustration, he would suppose the case of a central station dispensing, by four hundred machines, the electric current to four hundred lamps, all at a distance of 1 mile, taking those four hundred miles of wire and putting them in four hundred lamps, four hundred miles apart, and, instead of the four hundred lamps at short distances from one another without any change of circumstances, the same effect would be produced at four hundred miles as at one mile. The question of the last development in theory, was, as Dr. Siemens had remarked, the fundamental question with reference to the quantity of metal required to communicate the effect to a distance, to offer one of the most practical ways of proceeding, the result would be to put the wire in the shape of a copper tube.

[ENCLOSURE]

Having a copper tube with a moderate amount of copper in its electrical area, and a current of water flowing through it with occasional pieces to tie it off, and pieces to allow water to be admitted for the purpose of cooling, there would be with only trifling injury to the insulation a power of carrying off the least practicable of infinitesimals. He believed that with an effective (though) moderate amount of copper it would be possible to carry the electric energy for one hundred or two hundred or one thousand electric lights to distances of several hundred miles. The economical and engineering moral of the theory appeared to be that, some hence forth would be lighted by coal burned at the pit mouth which it was cheapest. The carriage expense of electricity was nothing, while that of coal was sometimes two greater part of its cost. The dross at the pit mouth (which was formerly wasted) could be used for working dynamo-engines of the most economical kind, and in that way he had no doubt that the illuminating of great towns would be reduced to a small fraction of its present cost. Nothing could equal the practical importance of the fact to which attention had been called; that no addition was required to the quantity of copper to develop the electric light at a distance. The same remark he would apply to the transmission of power. It seemed had mentioned to him in conversation that the power of the Falls of Niagara might be transmitted electrically to a distance. The idea seemed as fantastic as that of the telephone or the phonograph, might have seemed thirteen months ago, but what was chimerical then was an accomplished fact now. He thought it might be effected that before long towns might be illuminated at night by an electric light produced by the burning of coal at the pit mouth, or by a distant water fall. The power transmitted by the machines was not simply sufficient for working a sufficient number and amount of H.P. might be developed, taking the case of the machines required to develop one thousand H.P. he believed it would be found comparable with the cost of a thousand H.P. engines, and he seemed not point out the great economy to be obtained by the use of such a fall as that of Niagara or the employment of waste coal at the pit mouth.

The Brush Dynamo &
Light

From Brewer & Jensen
London

Dec 2, 1878

1878

Received Dec 3, 1878 from
Brown & Jensen

Haddan (A Communication from Bruch of Cleveland, Ohio, 18th May 1878 No 2003

Apparatus for generation and application of Electricity for lighting, plating and other purposes

This is a voluminous specification with 6 large sheets of drawings

Claims are for:

Annular grooved revolving armature constructions

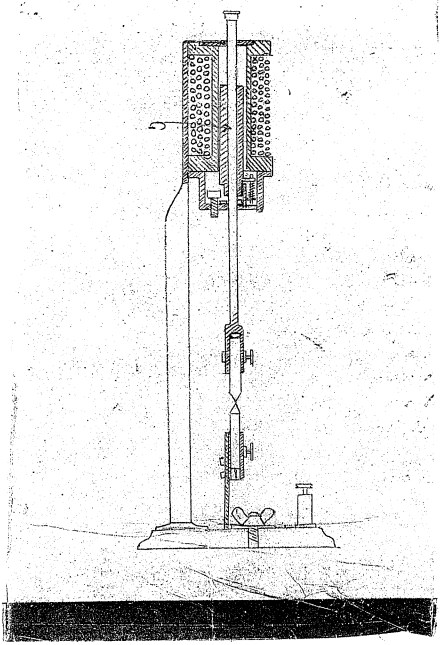
A Commutator cylinder to the insulating body of which are attached subsegments, and detachable wearing segments

A dynamo ~~or~~ electric machine in which a portion of the current produced is diverted for maintaining a permanent magnetic field also having a helix of high resistance in closed circuit while machine is running in combination with magnet helix as commonly employed.

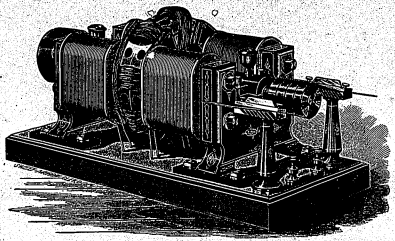
In an electric lamp combined with carbon holder and core, a clamp for accurate feeding and a stop for preventing break of current so as to extinguish the light: also combination of the clamp and a core or armature, and the stop and core retaining springs: the points of carbons are separated from each other when current is established but not so far as to break the current.

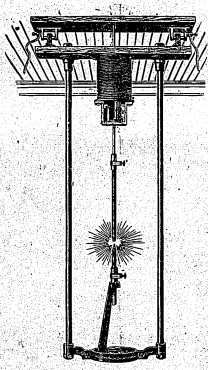
Carbons covered with copper ribbons.

Received Dec 21 1878 from
Brown & Sharpe



ELECTRIC LIGHT!





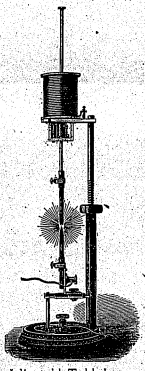
Hanging Lamp for Factories, &c.

Having fully perfected the Brush Dynamo-Electric Machine and Apparatus, *so as to produce* Electric Light, *at a cost* far below *that of any artificial light, we are prepared to make propositions for its introduction into all locations where considerable light is needed. The places where this light can be used with the greatest economy, and where it is certain, sooner or later, to supplant all other illuminating agents, are* Factories, Mills, Shops, Depots, Docks, Streets, Public Halls, Theatres, etc., *and also in* Lighthouses *and as headlights for* Steamers, Ferry Boats and Locomotives.

Parties desiring to use Electric Light for the above or similar purposes, are invited to send us full particulars regarding the buildings, rooms or places to be lighted, including dimensions, character of walls and ceilings, amount of available power and its location, amount of light now used, character of work being done, length of time light will be needed continuously, &c., &c. For Lighthouses or Headlights *simply the amount and power of light needed may be mentioned.*

With these items before us, we will make a proposition to furnish a Complete Outfit for Electric Light, *put it in perfect working order, and guarantee its success and permanence. Full opportunity will be given to test the Apparatus thoroughly before concluding the purchase.*

The fullest investigation and the most exhaustive comparative tests fully satisfy us that our Apparatus is the very best now before the public, and that the Brush Dynamo-Electric Machines *and* Brush Automatic Carbon Regulators *are, so far, unequaled in any country.*



Adjustable Table Lamp.

Address all communications:

TELEGRAPH SUPPLY CO.,

130, 132 and 134 Champlain St.,

CLEVELAND, OHIO.

New York Dec 3. 1878.
No 19 Broad St

Thos A. Edison Esq

Dear Sir Yrs of yesterdays date recd. This Electrician wants some money to make a machine or attachment that will save all the Power of a Steam Engine and convert it into Electrical Power. If you will furnish the necessary funds say $1.000 you can have 1/2 interest in the invention & patents

Next

Do you want to sell all your inventions and Patents and all you may hereafter invent or obtain in Great Britain for Electrical lighting If you do state by return mail how much money will buy them and the terms of payment and let both be as liberal and fair as possible and perhaps I can find you a purchaser

Truly Yours
Geo B Walter

T. A. EDISON.

Menlo Park, N. J., Dec 3d 1878

1140 pm.

3 N.Y. 3d
Thos A Edison
Ms
What is address of
your New York agent
for Electric light
Wm H. T. Hughes
74 Wall st

14 paid
Mah

T. A. EDISON.

Menlo Park, N. J., Dec 3d 1878

3
Wm H. T. Hughes
74 Wall st NY

C. G. Lawrence Drexel
Building Thos A Edison

6 Collect
1145
9 Ma

T. A. EDISON.

Cable

Menlo Park, N. J., Dec 3d 1878.

Siemens

London

Better patent your magneto here immediately.

Edison

9 Menlo Park NJ Dec 3d

12.04 Pm

9 ma

1878 E.L.-
Dynamos

SIEMENS BROS

12 Queen Anne's Gate,
S.W.

London 4th December 1878

T. A. Edison Esq.
Menlo Park
N. J.

Dear Sir,

I received your telegram this morning as follows "Better patent your magnets here immediately" I thank you for the hint and beg to say that it has been my intention to do so before but all the necessary papers have not yet been prepared.

I am,
Dear Sir,
Yours very truly
C. William Siemens

W. E. C. Eustis,
Mechanical & Metallurgical
Engineer,
4 Pembroke Square,

Boston, Dec. 4 1878.

Thos. A. Edison, Esq.,
Menlo Park, N. J.

My dear Sir,

May I have the pleasure of meeting you and viewing your system of electric lighting? – Having made this a subject of special study abroad during my visit and study in Chemistry in 1876-7 and having had continued access to the workshops of M. Jablochkoff and Gramme (Bregnet) in 1877 it may be also of interest to you to give me a few moments conversation, – to actually serve a company which may be connected to do business with the best system in New England, in my opinion. –

When may I have the pleasure of meeting you next week at your laboratory? –

Very truly Yours
Chas. R. Fletcher. –

4 Pembroke Square.

T. A. EDISON.

4 Menlo Park, N. J., Dec 5 1878

Prof. Henry ~~W.~~ Draper
271 Madison Ave NY

My light people forced engagement on me for tonight, hence cannot come am very sorry.

Edison

15 DH
1 30 PM
9 MA

2 Dec 6, 78

Drexel Morgan & Co
NY

Please have J. S. M & Co send forward at once ~~[illegible]~~ material that is ready

T. A. Edison

15 DH
9 MA 4 52 PM

BRASS AND COPPER ROLLING MILLS ESTABLISHED 1848.

Office of Wallace & Sons.
Manufacturers of
Brass and Copper Goods

WAREHOUSE
89 CHAMBERS & 71 READE STS.
NEW YORK.

Ansonia, Conn. Dec. 5th 1879

T. A. Edison Esq.
Dear Sir

We can furnish you with 10 lbs. Sheet Copper 2" wide & .02 thick chemical Pure but we should have to make it by deposition & could not furnish it in long lengths. This is the only way in which we could make it & it would necessarily be in quite short pieces - would that answer your purpose?

Yours truly
Wallace & Sons
B.M.

2

Dec 9. 78

Conduit H & Van W
Newark N.J.

When will you send the Battery

T A Edison

6 PM
9 33 Pm
Mody

4

Dec 9-78

Newark N.J. 9.

T A Edison 2ms

Sent part of order
today more tomorrow

Conduit Hanson & Van W

7 Paid
Tyg 5 12 Pm.

BRASS AND COPPER ROLLING MILLS.—ESTABLISHED 1848.

Office of Wallace & Sons,
Manufacturers of
Brass and Copper Goods

WAREHOUSE.
89 CHAMBERS & 71 READE STS.
NEW YORK.

Ansonia Conn. Dec 1 1878

Thos A Edison.
Dear Sir
Yours of 9 inst at hand, we have no carbons at present the size you ask for, but will make some at once and send you, the price of our lamps is ($30) thirty dollars for the large ones, and ($25) twenty five for the small ones. Our large plating machine we can let you have for ($3000) three thousand dollars it requires from 25 to 30 H.P. to drive it. The Dynamo machine is in the Custom House expect it in a few days

BRASS AND COPPER ROLLING MILLS.—ESTABLISHED 1848.

Office of Wallace & Sons,
Manufacturers of
Brass and Copper Goods

WAREHOUSE
89 CHAMBERS & 71 READE STS.
NEW YORK.

Ansonia Conn. 1877

What success in dividing the current, hoped to hear about it before this, am glad your patent is granted hoping to see your invention working soon I remain
As ever
Yours very truly
A. Wallace

Leeds Eng. Dec 12, 78
James Walker

Sample of what he thought was pilot black

Rec'd Jany 13, 79

10 Elmwood Place
Leeds (England)
Dec. 12th 1878.

Professor Edison
New York.

Sir I see by a Telegram published this morning by the London Daily News that you authorize the statement that your new patent Electric light is produced by the incandescence of an alloy of Platinum

Leeds Eng. Dec 12, 78
James Walker

Samples of what he thought was pure black

Rec'd Jany 13, 79

and indium. I beg to enclose you two samples of nearly a pound each (portion), of what I have reason to believe is Platinum black & the other Metals connected therewith as they come from the ores. They are marked respectively C.H. and C.O.N. are from two separate but kindred ores. Will you please (discriminating the two marks) try them in your light? and if they are applicable I can supply you to any amount after I have erected works capable of reducing them from their ores. and if you can take all I can produce, (and who can doubt there will be an immense consumption), I can supply you exclusively. My.

Leeds Eng^d Dec 12/78
James Walker

Samples of what he thought was pilot black

Rec^d January 13, 79

of these metals
discovery is almost as
great as your light,
I have had such diffi-
culties to overcome
from the smelters &
dealers in platinum
they want no further
supplies coming into the
market. This I think
will prove your conclusive
justification. Let me hear from
you as early as you can,
and I hope with a favourable reply
Yours respectfully James Walker

ESTABLISHED 1820.

Condit, Hanson & Van Winkle,

Importers & Manufacturers & Dealers in

Acids, Dye Stuffs, Chemicals, etc.

Manufacturers of Nickel & Electro-Platers Material.

236 Market Street cor. Mulberry.

WESTON DYNAMO-ELECTRIC MACHINE.

Newark, N.J. Dec 13 1878

Mr C. H. Edison
Menlo Park N.J.

Dear Sir:

Enclosed please find bill of 10 Batteries as per your order of 6th inst – We received the order just after we had made a large shipment of them & had only three jars left on our hands. These we shipped you & then borrowed jars from a party who was not using them – We just received a shipment of them today & send you the three remaining jars – having sent all the parts with the four batteries sent on 10th inst – Awaiting your further esteemed orders – We remain Yours Condit Hanson &c

Dr. Mary Walker is said to have become insane. She is spending the tendency of people prone to the malady known as indigestion. Hence, to shatter the strongest intellect, go!

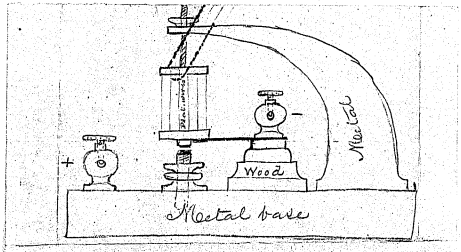
Dr. Mary Walker's reason may yet be restored. Edison is said to be at work on an invention to keep pants from bagging.

3909 Locust St.
Philadelphia Dec. 14. 1879.

My dear Edison:-

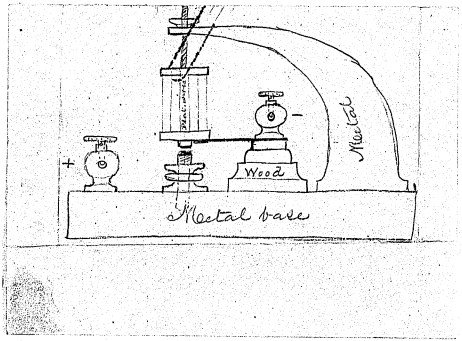
I received a letter from Mrs. Thornburgh of Pleasant Port Otto memory, the other day acknowledging the receipt of the photograph of yourself which I sent her, and desiring me to remember her to you and thank you for the picture. The enclosed strips of paper with which I have headed this letter. The Major had just returned from a trip to California with some friends. They had a good time.

We were of course very sorry not to see you at Dr. Draper's last week. There were many inquiries after you and I think you would have had a pleasant



evening had you come over. Dr. Draper gave a capital familiar talk, as he knows so well how to do, upon the progress in illumination made by the human race, and gave some fine electric light experiments with the electric candle of Jablochkoff, with a beautiful little plate lamp which Mr. Wallace made for him and with a Werdermann lamp also made by Mr. Wallace. The little Gramme machine of Dr. Draper ran it all nicely. Wallace also brought on some of the new carbons he is making which are the best I've ever seen being harder even than the Carré carbons and from 1/16 to 3/4 an inch in diam.

I went down town on Friday, and saw in Mr. Mapin's office in the Equitable Building, a form of platinum light which I thought might interest you and which therefore I enclose a drawing of. It is not quite high enough vertically, on my paper. You will readily understand it. The current entering by the positive binding post passes through the metal base and arm to the gridiron of platinum wires and through them to the brass spring and to the negative binding post. As the wires heat they expand and the platinum faced surface under them being brought in contact with a similar one under it, the current is shunted round the platinum wires till they cool again. The lamp I saw was made over a year ago. Mapin you know is running a Wallace machine in the basement of that building for his two lights; but he has taken off Wallace's name. It is running duplex; and has been used steadily for 6 mos. from 8 A.M. to 9 P.M. without requiring a moments attention.

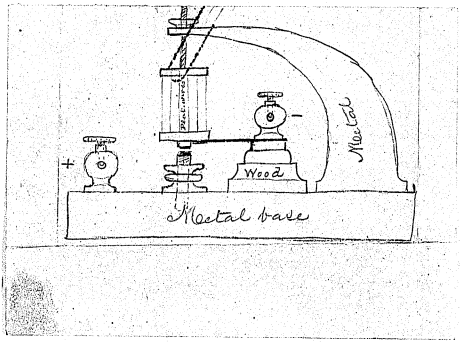


4

Another thing I heard which I thought you ought to know. It was told at the Century Club that A. N. Eaton of Brooklyn had patented a metallized button for a transmitting telephone which could take the place of your carbon button perfectly. Today I heard of it here as being louder and producing better articulation than the carbon button. What are the facts of the case?

Mr. Wallace desired me to say to you when I wrote again that if you desired to try any experiments with quantity magnetos, or with those of any desired internal resistance he would be very glad to put his collection of machines (almost of every conceivable pattern) at your disposal in Ansonia, as well as his power etc.

When Mrs. C. & the baby are strong enough Mrs. B. and I will come on and spend a day with you. Yours truly Geo. F. Barker.



No. 8 Howard Place Leeds
England
Dec. 16th 1878.

Professor Edison
New York U.S.

Sir

I sent you by last Saturday's Mail two ounces of black powder which I believe to be platinum black, perhaps palladium in combination. Inside a short presentement, as soon as I know what you used for your Electric light, that my black powder requires to exactly your patent. I sent you the fact or the results, what you found, then and offered to exactly answer. So far as these experiments I could not

tell them that the C.H. & C.O.N. powders for less than 10/ stg. per oz troy; the quantity per ton of ore is so small & the cost of the fluxes so great. ——

I now enclose you 1 oz of a black sand (geo.) 400 tons of which I have on hand. I don't know I could supply it with certainty, regularly beyond a few tons. It was cast up by the sea, in the neighbourhood where the C.H. & C.O.N. ores come. I have had it analysed & have smelted it — the analysis gave some iron, the residum was not followed up. The smelting gave iron & other metals combined, the iron not solid, but like the root of a tree honeycombed on passing it through hydrochloric acid 48 hours, then evaporating it, and heating the residum to redness, gave after washing

2

the black powder I now enclose
you in a box marked "melted powder."
This is the final result, as far as my
experiments have gone with it.
My own opinion of it is that it is nearly the same as the
other. I merely mention these experiments
to show you how I have obtained these
results, so as to enable you to make
your own tests. A sample of opinion that
to 60 per cent of platinum, medium
10 to 20 of the lead & the remainder tin, will give 30
of the lead. If this lead will come for
your purpose I will take for the month
on hand 25 per ton for the medium price f.o.b.
or Cash order, and if I can see a
way more I will take the same

next year (1879)

Price for all I can deliver. But if it is
not worth that price but a less price to you, I will entertain
an offer from you for it if reasonable and
will pay you to accept it. I hardly need
express the hope that you will give these
samples a fair trial, do them justice, because
they may prove to be the source of the supply
of what you require for the success of your
Patent, as I am of opinion there is not
as much platinum & iridium at present
produced in the world as you can consume
with your light, and she in the hands of such
houses as Johnson Matthey & Co London & Demontis
of Paris, they would charge a great out
prices 30/ per oz would not by any means entirely
them. I cannot but hope my discoveries
are coincident, to enable me at a moderate cost
what you require, at a minimum of trouble
I hope you will prove I am correct. You may rely
extract from me as early as possible James Weldon

Scranton Dec 16/78

T. A. Edison Esq
Dear Sir

I saw in N. Y. Sun last week that you were turning your attention to the question of generating electricity now that you have successfully solved the question of the light, when I was at Menlo some time since, you told me that you thought that the Brush filled the bill for a dynamic machine, I wish to call your attention to a point in all of these rotary machine and it is this, they are constructed so that the revolving magnets passes laterally across the forces of the fixed magnets, cutting the so called lines of force at right angles, as if that were

the only way of exciting currents in the surrounding wire, in the working of all of these machines there is a neutral point between every two magnets, and when the magnet that is revolving comes to that point, the inductive action must be mixed when it is half way over, and I think power must be lost there or at least none gained; now there is another way to generate electricity by exciting magnetic action, it is simply this if two electro-magnets are facing each other with their opposite poles as close as possible without actual contact, and charged by a small battery of permanent magnet or galvanic cup, then let one of them be alternately drawn backward and forward a certain distance by a cam movement on a shaft in the rear, alternate currents would be excited, which could be made continuous if needed by a simple commutator; you know better than I can tell you, that the magnetic force decreases in a very fast ratio by the distance of poles from each other, and on that principle you have constructed your harmonic engine now. Suppose you reverse the principle of that engine, and turn power into electricity by a short and rapid stroke; take the Bell telephone as an example; this plan would get rid of all of those "half and half" points of the rotary machines, for at the very moment when the stroke turns from the backward to the forward, the magnet or armature is at once demagnetized, and a contrary current set up,

if necessary the fixed magnet could have a tubular core the moveable magnet to work "to and fro" inside of the core this would have the advantage of exposing the wire of it to the inductive action of outer magnet and giving a longer stroke if wanted this is the same principle as the ordinary induction coil, with this exception, in the coil the core is demagnetized by breaking the current, and in this by changing direction of movement; the one great trouble in lighting by electricity, you are well aware of is this, it takes quantity and a long circuit, or even a short one kills it, if there are many lights, Now cannot an arrangement be got at that will turn intensity into quantity if it could, the generating machine could be wound with finer wire and the resistance of main circuit overcome easier, if when it came to the place for lighting it could be converted into quantity, the induction coil ~~converts~~ converts quantity into intensity, why would not it reversed answer, if the current on the main wire was an alternate one; contact need not be broken; excuse this long line of suggestions I know that it is one thing to suggest, and entirely another to carry out, but state the idea must come first, and maybe you have been over the same ground and then I am simply boring you,

I see that the light problem is keeping you very busy in case you need any extra help around your place, I hope that you will give me a show as per promise

Yours respectfully
Henry May

P.S. any improvement on the telephone since "water is natural"

(Electric light)

DREXEL, MORGAN & CO.
Wall St. Corner Broad.
New York.
DREXEL & CO.
Philadelphia.
DREXEL, HARJES & CO.
Paris.

New York Decr 18th 1878

Thos. A. Edison Esqr
Menlo Park N.J.

Dear Sir,

We are today in receipt of a letter from our London friends Messrs J.S. Morgan & Co, containing a paragraph in regard to the chemicals ordered by you; the substance of which is as follows:

"We enclose Invoice of the chemicals "which Messrs Johnson Matthey & "have dispatched to Mr Edison "per Star's Express Co. as soon as "they hand us the Company's receipt "and Consular Invoice, we will "forward them to you. Messrs "Johnson Matthey & Co have asked "us if they might send the small "items of Mr Edison's order not "yet ready, by post from time "to time, as soon as finished direct "to Mr Edison to which we have "replied that if they would

go

"go safely they might do so"

We also enclose copy of a letter from Messrs Johnson Matthey & Co to Messrs J. S. Morgan & Co in regard to the highly alloyed iridium wire.

We are,

Yours very truly

Drexel Morgan & Co

[ENCLOSURE]

Copy

Hatton Garden
London 5th Dec. 1878

Messrs Mulcholmes &
22 Old Broad St E.C.

Gentlemen.

In answer to your inquiry with reference to the order received from you for Mr Edison, we are doing our best to execute same, but the highly alloyed iridium wires are causing us much trouble; the difficulty in preparing some of them being have appear insuperable.

We will however persevere in our endeavors to produce these high alloys, presuming that it is a matter of importance to Mr Edison to have them and shall be able within two or three weeks to report to you further, meanwhile as Mr Edison seems to be pressing you, we will at once pack and forward all the items of the order that are now ready and which form the bulk of it, [illegible]

We are,
Gentlemen,
Your faithfully

Dec 19, 78

1

Prof G. F. Barker
Phila

Can you send me your small Gramme machine with permanent Jamin magnet for ten or 14 days

T A Edison

17/8H
Ed Mu
4th AN

Pennsylvania Rail Road Company.
Philadelphia and Erie Rail Road Division.
Superintendents Office (Eastern Division)

Thos Lindsey
Supt Eastern Division

Williamsport Pa Dec 19 1878

T A Edison
Dear Sir
Will you please write me when you expect to make a public Experiment with your Electric light.
Will you also inform me of the best & cheapest Electric Motor, that will Generate Power Equal about 10 Horses. Also the probable cost. I am solicited daily to write you & do so to be able to tell them, like Washington I cannot tell a lie —
Yours Truly
H B Rhoads

T. A. EDISON.

Menlo Park, N. J., Dec 21st 1878

T. A. Edison Esq

Dear Sir

I called to-day, in company with Mr. F. F. Jones, our manager, to reply in person to your letter to the Ac. Supply Co. of Cleveland, and regret not to have been able to see you.—

The "Supply Co" referred your letter to their New York agency, which Mr Jones & myself are here to represent.—

I enclose you a new cut of the prices of the Brush machine and desire to say that we will be most happy to ship you one upon receipt of order by telegraph addressed to our Mr Jones, No 231 Broadway, N. Y.

Only one 1½ horse power

T. A. EDISON.

Menlo Park, N. J., 187

machine has yet been completed, & that is in operation at the Merriman Paint works, Lowell — we have two others under way however & will hasten, I think to give you the refusal of one of you so desire, though there are several inquiries from manufacturing establishments in regard to them —

We shall be very glad to know that you have succeeded in making our machine available for your experiments & shall be glad to aid you at all times & in all ways —

Trusting I may have the pleasure of a personal interview one of

T. A. EDISON.

Menlo Park, N. J., _____ 187

these days. I am
Very truly Yrs
Charles A. L. Collis

Should you desire to address me personally, a letter to "Philadelphia" will reach me.—
Mr. Jones will endeavor to see you at such time & place as may suit your convenience

[ENCLOSURE]

THE

BRUSH ELECTRIC LIGHT CO.

No. 231 BROADWAY,

NEW YORK.

ESTIMATES MADE AND APPARATUS FURNISHED FOR LIGHTING FACTORIES, HALLS, HOTELS, THEATRES, STORES, PARKS, SQUARES, DEPOTS, DOCKS, STEAMERS, FERRY BOATS, &C., &C.

FRANK F. JONES,
MANAGER.

[ENCLOSURE]

No	Total Comp. Power	Price	McElhaney		Pulley Diam.	Pulley Face	Meridian	Horsepower
2	1000	$375.	1		5	4	1200	1½
3	2000	500.	1 or 2		5	5	1200	2½
4	4000	675.	1.2 or 3		6	5	1100	3½
5	12000	1200.	2.4 + 6		8	6	900	7½
7	35000 15000	2000.	10. to 20.		9	8	600	13½.
Lining		∞	Lin-	Nos	2	3	4 + 5	$ 65 each
		"	"	"	7	—	—	60. "

[ENCLOSURE]

ITEMS CONCERNING THE
Brush Electric Light Apparatus.

THIS apparatus is the invention of CHARLES F. BRUSH, M.E., of Cleveland, and is manufactured exclusively by the Telegraph Supply Co., of that city. It consists of a Dynamo-Electric Machine for generating the electricity, and automatic carbon regulators or electric lamps, for holding and feeding the carbon rods, which, by their consumption in the voltaic arc, produce the light.

The machine used at the American Institute Fair is a No. 5 one current machine, operating four lamps, of 2000 candle-power each, or equal to 200 five-foot gas burners. These lamps burn in one circuit, one wire leading from the machine through the four lamps, and back to the machine. The machine is operated by the steam engine, and absorbs while in action about seven H. P. The lamps in use are adapted to burn fourteen inches of carbon without adjustment, and the carbons last eight hours. At the end of this time, new carbons may be placed in the lamp in a few seconds without serious interruption of the light, or by using larger carbons they can be made to last several days without renewal. The light produced is a pure white light, like that of the sun. It will be noticed that delicate shades of colors may be detected as well by its use as by sunlight.

Another peculiarity of electric light is that it produces very little heat, and gives off an unappreciable amount of non-respirable gases. An equal amount of gas-light produces nearly two hundred times as much heat, and about the same proportion of non-respirable gases. The healthfulness of electric light is therefore a great point in its favor, as compared with any other artificial light; and there is no danger of fire or explosion in its use.

The steadiness of the light produced by the Brush Apparatus is noticeable. With a source of power that is uniform and reliable, and with pure carbons in the lamps, there is no flickering and no change in the color of the light.

The cost of light produced by this Apparatus consists of the following items:—Cost of power to run the machine; cost of attendance upon engine and machine; wear and tear of apparatus; cost of carbons burned in the lamps. The first two items would vary with the location and circumstances. Where power is in use for other purposes, and there is a small surplus which can be used for running the machines, no additional expense is incurred, and the first two items may be omitted from the account. The wear and tear of the electrical apparatus is not four per cent. per year,—far less than in most moving machinery. This comes from the fact that the Brush Apparatus is the simplest and most durable yet brought out. Even a cursory examination shows this. The expense for carbons consumed in each lamp varies from three cents to five cents per hour. In the lamps used at the Fair it is four cents per hour in each lamp. The cost of gas-light equivalent in power to the light produced by the four lamps in use at the Fair would probably be not less than four dollar per hour. Where cost of power and attendance may be omitted, and large spaces are to be lighted, the saving over gas is far greater, falling, under circumstances favoring the electric light, to as low as **one-twentieth** the cost of an equal amount of gas-light.

At the conclusion of a long and exhaustive trial at the Franklin Institute, in Philadelphia, a complete report on Dynamo-Electric Machines was presented by the special committee of nine members strongly favoring the Brush Machine, and its purchase was recommended for the uses of the Institute, which recommendation was immediately carried out. The only American Machine competing with the Brush, was shown to be less than one-third the efficiency of the Brush, and heated so greatly as to be seriously impeded in working.

Comparisons of the Brush Apparatus with the best of the systems in use in Paris, of which so much has been written of late, are favorable to the American system.

The Jablochkoff Candle, as ordinarily used, is placed in a glass globe on a post ten feet high, and gives a light equal to 700 candles. One candle, burning an hour and a half, costs fifteen cents. If light is needed for a longer time, a fresh candle must be substituted each hour and a half. If the candle is accidently extinguished, it does not re-light itself, as does the Brush lamp, but must be re-lit by hand. A Brush lamp of **3000 candle-power** costs four cents per hour for carbon consumed, or less than **one-third** the cost of the **700 candle-power** light produced by the Jablochkoff candle. If the Brush lamp is accidently extinguished, it instantly re-lights itself, and it requires attention **only once**, in burning twelve hours continuously, whereas the Jablochkoff candle would require attention **seven times** in the same interval.

In an article by M. Hippolyte Fontaine, of Paris, read at the recent meeting of the Institution of Mechanical Engineers at Paris, the following sentence occurs: "The cost (of the Jablochkoff system) for equal power, is greater than that of the older system, but it will answer admirably for all establishments where a luxurious light is in demand." The Brush Apparatus furnishes the most economical light in **all places** where considerable light is needed, and, all things considered, costs but one-third that of the French system.

All information regarding the Apparatus may be obtained of

FRANK F. JONES, Manager,

BRUSH ELECTRIC LIGHT CO.,

231 BROADWAY, New York.

[ENCLOSURE]

Directions for Setting up and Operating the

Brush Dynamo-Electric Machine,

FOR ELECTRIC LIGHT.

1. LOCATION OF MACHINE.

Place the Machine on a solid bench, or other permanent support, at a convenient height from the floor, and locate it so that power can be readily applied by means of a belt of suitable size, and as near as possible to the points where the light is to be used.

2. SPEED OF ROTATION.

By means of suitable pulleys and countershaft, arrange to give a steady and uniform rotation of not less than _____ nor more than _____ revolutions per minute, to the shaft of the machine, which carries a _____ inch pulley, and requires a _____ inch belt. This speed must not be estimated nor guessed at, but *counted* with a velocimeter, or speed counter. The steadiness and uniformity of the speed of the machine is essential, in order that the light may also be steady. Slipping of belts must be carefully guarded against.

3. OILING.

Keep the oil cups on the journal bearings, supplied with the best quality of lard oil or fish oil (sperm). Keep the caps properly screwed down to prevent looseness of the journals in their bearings, and see that the journals do not heat. Oil the commutator lightly, with the same oil, keeping on enough to prevent running dry.

4. COMMUTATOR.

Clean out the spaces between the segments of the commutator, so that no metallic chips or other conductor shall remain to make a contact across. Do this as often as there is any accumulation of dirt in the spaces, and keep the surfaces on which the brushes rub, clean and properly oiled.

5. BRUSHES.

The brushes are taken out of their supports when packing the machine for shipment, and in replacing them care must be taken to clamp them firmly in the position shown in the cut, that is, with the ends of the brushes resting squarely and evenly on the commutators, so that the bearing surfaces will be about ½ inch from the ends, making the brushes *tangent* to the surface of the commutator, above and below. The position of the brushes is important, and when placed as above, there will be scarcely any sparks at their ends. If sparks appear a slight change in the position of the brushes may be made, by means of the shifting attachment, when the sparks will disappear. When the brushes are nearly worn through, they must be clipped off at the worn ends, and moved up to the same position as before.

6. CONNECTIONS.

The binding posts on the machine are marked "P" and "N," to designate the positive and negative poles. On the one light machines there are two binding posts, and on the two, four and eight light machines, there are two binding posts for each light or lamp. In making the connections from the machine to the lamp or lamps, it is only necessary to run a copper wire of the proper size from the binding post marked "P" on the machine to the connection on the lamp marked "P," which leads to the upper carbon, and from the binding post marked "N," to the connection on the lamp leading to the lower carbon, also marked "N." If the machine operates more than one lamp, each lamp is connected to its pair of binding posts on the machine. Make firm and permanent connections both on the machine and lamps, and examine them occasionally to see that they have not become loose.

7. WIRES.

The proper size of wire for connections from machine to lamps is indicated in the accompanying table. Never use gas or water pipes, or any other ground connection for a return wire, unless it is absolutely certain that the electrical resistance of such conductor is not greater than that of the wire used for the main line. In almost all cases it is better to run a return wire of the same size copper as the other. If several circuits are run, a single return wire may be used, having as great conductivity, or cross section as all the main wires together. If iron wire is used instead of copper, it should be *seven times* as large, for it conducts the current only one-seventh as well. Run the wires so there will be no possibility of their getting together accidentally and thus making a *cross*.

LAMPS.

LOCATION.—In placing the lamps in their permanent positions, first firmly secure to the ceiling or other support provided, the detached board with the brass hangers fastened to it. This must be so located that the brass rod which passes up through the lamp, and holds the upper carbon, may have room above it to permit its sliding up high enough to admit the introduction of the carbon into its holder. If the board is fastened directly to the ceiling, this may be accomplished by drilling a three inch hole above the board to the required height. Having fastened the board firmly in its place, the wires brought from the machine are to be securely attached, one to each hanger, noticing which wire comes from the positive binding post on the machine and which from the negative, and connecting them accordingly. Then by means of the hooks on the hanger swing it from the hangers above so that the hook marked "P." shall swing from the hanger marked "P." This completes the circuit from the machine through the lamp. Where the double hangers are used with an extra lamp, connections are made to the two points provided.

ADJUSTMENTS.—The only adjustments provided on the lamp are the spiral springs and the movable carbon holder for the lower carbon. The purpose served by the spiral springs is to support such a proportion of the weight of the core, through which the upper carbon rod passes, as may be necessary to secure steadiness in the light and the proper length of arc between the carbon points. This varies somewhat with the speed at which the machine is run. If too much weight is supported by the spiral springs, the voltage are between the carbon points will frequently go out, thus causing disagreeable interruptions in the light. If on the other hand, too little weight is supported by the springs, the voltage arc, although giving a steady and steady light, will be short, and will not afford a sufficient resistance to the passage of the current to prevent the dynamo machine overworking and heating itself. The lamps are carefully adjusted before shipment, to the speed which gives the best results, as stated, and therefore can be operated without further adjustment.

DASH POT.—This is a small brass cylinder, carrying inside a piston and valve, attached by an arm to the iron core. Its purpose is to prevent the too sudden separation of the carbons. Before setting up the lamp, detach this cylinder by removing the screw underneath, and fill it a little more than half full of pure glycerine, screw on the top and replace it in its position. This needs no attention save occasional refilling with glycerine. A brass plate covers all these parts.

CARBONS.—Secure one of the full length carbons in each of the carbon holders. Let the lower one project above its holder sufficiently to allow the upper carbon an upward play of at least a quarter of an inch. Care should be taken that neither carbon shall burn down so far as to permit of the burning of its holder. By means of the adjustment of the lower carbon holder base, bring the lower carbon immediately under the centre of the upper carbon, and then clamp it firmly. The upper carbon must be so fastened into its holder that it will remain perpendicularly over the lower carbon until all consumed. To test it, remove the upper carbon and its holder, between the fingers, a few times. If it is out of line, one or two changes of position, or turning the carbon end for end, will generally correct it. The object of this adjustment is to prevent the carbons slipping by each other as they burn away. It is necessitated by the unevenness of the carbons, which imperfection cannot always be avoided. The upper carbon must be connected with the positive pole of the machine; when so connected it becomes much more heated than the lower, or negative, and burns away much faster. It burns cup shaped, while the negative carbon burns to a point. In starting the light so that all the wires are securely attached in their proper places; that the carbons are one above the other, and resting upon each other, so as to make a good contact. See that there is no obstruction to the free movement up and down of the upper carbon, and then start the machine, and the light will start. Due care having been taken in the above particulars, the light will burn steadily and brilliantly, for from four to eight hours, according to the power of the light. At the end of that time, or as soon as either carbon is burned to within an inch of its holder, replace it with a fresh one; or in the case of the lower one, move it up to a new position; or hang up the extra lamp ready charged. Keep the upper carbon rod clean and smooth, so it will slide up and down in its supports with perfect freedom. Do not oil it, but wipe it off occasionally with a clean cloth. See that the springs retain their tension and do not rust. Keep the dash pot a little more than half full of glycerine. Keep the whole lamp clean and in a free working condition in every part.

If one lamp goes out, from the burning out of the carbon, a fresh carbon should be immediately supplied, or the lamp changed, as otherwise sparks will be caused at the commutator and burn it unnecessarily. Substantially the same effect is produced if in one of the lamps the carbons slide by each other, and get caught, and this should be attended to also at once.

[ENCLOSURE]

TABLE,

Showing the diameter in inches of pure copper wire necessary to be used in connecting the Brush Dynamo-Electric Machine with the lamps operated by it. The left hand column indicates the length in feet of one conductor from machine to lamp, the return conductor being, of course, the same length and size.

The other columns are headed with the candle power of the light proposed to be used, and the proper size of conductor for any given distance or for any power of light may be at once ascertained.

If we represent the amount of light produced when the machine and lamp are connected by a wire of no resistance, by 100, then the amount of light that would be produced at any given distance from the machine, when a conducting wire of the size indicated in the table is used, would be represented by 94. If a conducting wire of three-fourths the diameter—one-half the conducting capacity—is used, the amount would be reduced to 87; and a wire one half the diameter—one-fourth the capacity—would reduce it to 74. By using wires still larger than the table indicates there would be, of course, a corresponding saving in light. With these facts in view the proper size wire for any given distance may be selected.

The above estimates are made with reference to the purest commercial copper wire, and care should be taken that none but pure is used, as a small percentage of alloy or impurity makes a considerable reduction in the conductivity of the wire.

Length of Wire between Machine and Lamp, in feet.	Candle Power of Light.					
	1000	2000	3000	4000	6000	12000
	Diameter of Wire in Decimals of an inch.					
100	.095	.131	.161	.189	.232	.328
200	.134	.189	.232	.268	.328	.464
300	.164	.232	.284	.328	.402	.568
400	.189	.268	.328	.378	.464	.656
500	.212	.300	.367	.423	.519	.732
600	.232	.328	.402	.464	.568	.804
800	.268	.378	.464	.536	.656	.928
1000	.300	.423	.519	.600	.734	1.038
1200	.328	.464	.568	.656	.804	1.136
1500	.367	.519	.635	.732	.898	1.270
2000	.423	.600	.732	.846	1.038	1.464

WEIGHT OF COPPER WIRE.

No. Eng. Gauge.	Diameter in decimals of an inch.	Feet per pound.
0000	.454	1.61
000	.425	1.82
00	.380	2.24
0	.340	2.85
1	.300	3.67
2	.284	4.09
3	.259	4.92
4	.238	5.83
5	.220	6.83
6	.203	8.02
7	.180	10.20
8	.165	12.14
9	.148	15.10
10	.134	18.44
11	.120	22.05
12	.109	27.32
13	.095	36.03
14	.083	47.88

DIMENSIONS OF WIRE GAUGE SIZES IN DECIMAL PARTS OF AN INCH.

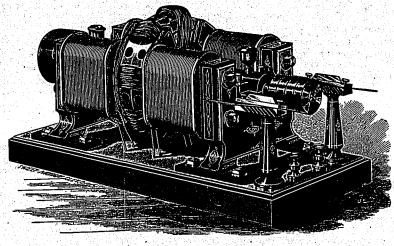
No. of Wire Gauge.	Size of each No. in decimal parts of an inch of the American Wire Gauge.	Size of each No. in decimal parts of an inch of the Birmingham Wire Gauge.	No. of Wire Gauge.	Size of each No. in decimal parts of an inch of the American Wire Gauge.	Size of each No. in decimal parts of an inch of the Birmingham Wire Gauge.
0000	.460	.454	19	.03530	.042
000	.40964	.425	20	.03196	.035
00	.36480	.380	21	.02846	.032
0	.32495	.340	22	.02535	.028
1	.28930	.300	23	.02257	.025
2	.25763	.284	24	.0201	.022
3	.22942	.259	25	.0179	.020
4	.20431	.238	26	.01594	.018
5	.18194	.220	27	.01419	.016
6	.16202	.203	28	.01264	.014
7	.14428	.180	29	.01126	.013
8	.12849	.165	30	.01002	.012
9	.11443	.148	31	.00893	.010
10	.10189	.134	32	.00795	.009
11	.09074	.120	33	.00708	.008
12	.08081	.109	34	.0063	.007
13	.07196	.095	35	.00561	.005
14	.06408	.083	36	.005	.004
15	.05707	.072	37	.00445	
16	.05082	.065	38	.00396	
17	.04526	.058	39	.00353	
18	.0403	.049	40	.00314	

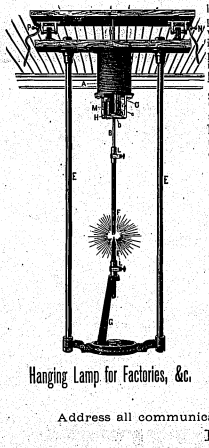
DECIMALS EQUALING PARTS OF AN INCH.

$\frac{1}{64}$ = .0156	$\frac{5}{8}$ = .1250	$\frac{15}{64}$ = .2343	
$\frac{1}{32}$ = .0312	$\frac{9}{64}$ = .1406	$\frac{3}{8}$ = .3500	
$\frac{3}{64}$ = .0468	$\frac{5}{32}$ = .1562	$\frac{17}{64}$ = .2656	
$\frac{1}{16}$ = .0625	$\frac{11}{64}$ = .1718	$\frac{9}{32}$ = .2812	
$\frac{5}{64}$ = .0781	$\frac{3}{16}$ = .1875	$\frac{19}{64}$ = .2968	
$\frac{3}{32}$ = .0937	$\frac{13}{64}$ = .2031	$\frac{5}{16}$ = .3125	
$\frac{7}{64}$ = .1093	$\frac{7}{32}$ = .2187		

[ENCLOSURE]

ELECTRIC LIGHT.





Hanging Lamp for Factories, &c.

The Brush Dynamo-Electric Machines and Electric Lamps having been fully perfected so as to produce Electric Light in a perfectly practical manner, at a cost far below that of any other artificial light, and with the most complete safety, we are prepared to make propositions for its itroduction into all localities where considerable light is needed. The places where this light can be used with the greatest economy, and where it is certain, sooner or later, to supplant all other illuminating agents, are **Factories, Mills, Shops, Depots, Docks, Churches, Public Halls, Theatres, Stores, &c.,** and also in **Lighthouses,** and as headlights for **Steamers, Ferry-Boats and Locomotives.**

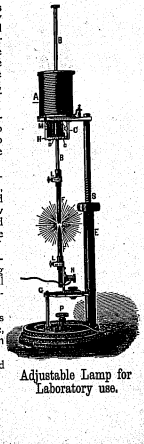
Electric Light is pure white, and therefore gives day colors to all objects viewed by it. An equal amount of gas or oil light produces nearly two hundred times as much heat and carbonic acid gas, and costs from four to twenty times as much as the Electric Light. There is no danger of fire or explosion in its use.

Parties desiring to use Electric Light for the above or similar purposes, are invited to send us full particulars regarding the buildings, rooms or places to be lighted, including dimensions, character of walls and ceilings, amount of available power and its location, amount of light now used, character of work being done, length of time light will be needed continuously, &c., &c. For **Lighthouses** or **Headlights** simply the amount and power needed may be mentioned.

With these items before us, we will make a proposition to furnish a **Complete Outfit for Electric Light,** put it in perfect working order, and guarantee its success and permanence. Full opportunity will be given to test the Apparatus thoroughly before concluding the purchase.

The fullest investigation and the most exhaustive comparative tests fully satisfy us that our Apparatus is the very best now before the public, and that the **Brush Dynamo-Electric Light Machines** and **Brush Automatic Carbon Regulators** are, so far, unequaled in any country.

A number of machines are in use in various parts of the country, and for various purposes, and are all fully successful.



Adjustable Lamp for Laboratory use.

Address all communications:

FRANK F. JONES, Manager,

BRUSH ELECTRIC LIGHT CO.,

231 Broadway, New York.

BRASS AND COPPER ROLLING MILLS. ESTABLISHED 1846.

Office of Wallace & Sons.
Manufacturers of
Brass and Copper Goods

WAREHOUSE
99 CHAMBERS & 71 READE STS.
NEW YORK.

Ansonia Conn Dec 21 st 1878

T. A. Edison Esq
Dear Sir

I enclose an item from the N.Y. Sun of Dec 19th. I was very sorry to see it and cannot but feel that you do me a great injustice (not intentionally on your part I cannot think) still the effect is the same greatly injuring the sale of my machine. As an example a gentleman came to-day who would have bought a machine only for the article mentioned which he said had caused him to change his mind wait a while longer see how Edison made out with his machine.

The machine you have was intended for the electric arc and is too intense. If you would say just what you desire I could build one better suited to your purpose. You saw a light of 2000 candle power each from one of these machines and I think that I have had 1500 candle power for house power. I feel sure that more power will be required per candle power with incandescence carbon platinum or any other material than with the arc.

Yours Respectfully Wm Wallace Jr.

[ENCLOSURE]

"Now, I ask," the Chevalier, "this paper was filed on Nov. 8. You see, I probably around before the Interior-General on the 16th. It should be Around had my real grounds for objection. It seems to me that was the time to make the point. Around not my reason to submit the point." Around: "But all right, and secured an adjournment on the ground that I would show the evidence. His period is ends in the day. He doesn't know the secret of Operation and he's the patter." "Well," said the Chevalier, "the perfection of his electric light." The Chevalier: "Well, I know an all right, but for lamp. I don't care anything more about it. Every bit of heat is utilized to produce light as far as we will allow. The incandescent lamps we use are perfectly satisfactory. We install now in Wallace Monitor-grew and three lights, each equal to a gas light, to a one-horse power. I guarantee that I can get six with an improved machine. I can get more." Now, to make my grand proposition to the Secretary of Interior Menlo Park. I should have to use twenty or thirty Wallace machines. They would cost from $20,000 to $40,000. They would be useless otherwise, for I know that I can make a generator that will produce light for less than a farthing. Experiment said I find the machine that will give the greatest amount of electricity per horse power. I am making many hundred generators of different forms. I propose to use the machine that generates the most fractions of a horse power, and shall be the machine that generates the most electricity."

"If you can run a generator with water," said, "what is there to prevent a man from buying a water power and generating his own?"

"Well," answered the Chevalier, "a man makes one or two lights, but hardly more, for it would require too heavy a weight."

"The size of Scientific last printed a comparison of the cost of the electric and gas light. Now do the figures tally with your estimate?" I inquired.

DREXEL, MORGAN & CO.
Wall St. Corner Broad,
New York.
DREXEL & CO.
Philadelphia.
DREXEL, HARJES & CO.
Paris.

New York, Dec. 21st 1878

Thos. A. Edison Esq
Menlo Park
N. J.

Dear Sir

The Consular Invoice and the goods from London have reached here & the latter are now in the Custom House.

We enclose 2 Documents, which please sign in the places designated in pencil, returning same to us at your convenience.

We will then have the goods cleared & forwarded to you.

Yours truly
Drexel Morgan & Co

W. H. HIBBARD, Supt.

E. NAGLE, Sec'ry and Treas'r.

Cheyenne and Black Hills Telegraph Line,

Connecting with Western Union Telegraph Company.

Cheyenne Wyo Office Dec 22 1878

Prof T A Edison

Sir

Cheyenne is small - but quite wealthy & looks forward to some one to light her paths = and presuming your late patent is for the benefit of mankind in general which includes "poor Chf Opers" I make this formal application for the right. to use your Electric Generator and burners;

Please give me the information needed as to cost of machinery for 800 or 1000 lights to start on =

Does your profit come in on first sale - or is it a monthly or yearly royalty on Generator and burners;

and how much.

I wish to get out of the office more - & also improve my financial condition. I do not wish to make you think it will be a personal adventure - but one backed by wealthy citizens of this place who are anxious to see your light introduced and I wish to have charge of it. By giving me the information as early as convenient it will greatly oblige - myself and others

Resp'y &c

A R Williams

W U Tel Co Cheyenne

DIRECTION über BIRGBAUN
DIRSTENTRITT & HAVERSTOCK
bei MASSEREIT
Obersinnthal,
INNSBRUCK,
TIROL.

Innsbruck den 23. December 1878.

Professor
T. A. Edison
Menlo Park
New Jersey.

Dear Sir,

I have written to you last on the 9th inst., inclosed to you today the plan of Turbines. I wish you would give me some more information relating the electric light, Cost of Magnetic El. Machines, lanterns etc. We could get from diff. points of a Stream (Bill) from 200 to 300 horse power, if there is no difficulty in leading wires say 2 km distance we could get 600 a 800 horse power. I am afraid however that the Electric light is not yet sufficiently perfected to light up towns with profit. We are now using wood-gas which is very dear, consumes a large quantity of others and more useful material. Our city fathers are ready to act at once if the prices

of the machinery, connections etc. is not too high.
The President of our Saving Bank (where 1/2 horse water power could be obtained in the house) asked me to write to you to ask what a Mr. El. Machine with day 20 - 25 lamps would cost. He would set that up at once to demonstrate the light. Please inform me soon what I can tell him. We W. prefer to get the Machines from America.
Have you made any further progress in the Phonographs & Telephones?
Wishing you a very happy & prosperous New Year, I remain, dear Sir, Ever Yours.

Respectfully

A. L. Ploug

The Tenor of the Typed
Dec 23.78
No reply

MEMORANDUM.

With JOHNSON & SONS' Compliments

23, Cross Street, Finsbury,
(Late of Basinghall Street)
LONDON, E.C. Dec 23rd 1879

To Mr. Edison
Menlo Park
U.S.A. New York

Sir

We have on quantity of very fine fine Iridium, which should you require such we would be glad to quote you

Yrs Johnson & Sons
J. D. W.

Cut up short stick

Not in stock
Price not yet

ESTABLISHED 1848.

AMERICAN-EUROPEAN EXPRESS.

BALDWIN BRO'S & CO.

PROPRIETORS.

72 BROADWAY.

New York, Nov 187

Mr T. A. Edison

Dear Sir:

Mr Theo Puttin of Paris Metals

addressed to you has arrived per steamer

Britannic

from Liv

The same is consigned to us, and has been held for duties. Duty amounts to $ gold. If you wish us to pay it, please send this amount, with shipping instructions.

Please reply on back of this sheet.

BALDWIN BRO'S & CO.

We wired you today to send certified invoice & trust you have done so.

2

Dec 23. 78
1.N

N Y 23

Thomas A Edison
Ms

Send certified invoice for Case platina and metals arrived from London

Baldwin
Bros & Co

12 Collect
G. N. G

1

Dec 24. 78
11 30 am

N.Y. 24

Thos A Edison ms

Telegraph Austin Baldwin Company New York hand as documents of shipment Chemicals also return documents sent Saturday for signature

Drexel Morgan & Co

18 paid
Maly

1 Dec 24 78

Baldwin Bros & Co
72 Broad NY

Please hand documents regarding case of platina to Drexel Morgan & Co

T A Edison

12 PM

11 39
9 ma

No 2 Dec 24.78

Drexel Morgan & Co
NY

Documents returned this morning. Have telegraphed Baldwin & Co

T A Edison

9 PM.

11 40 AM
9

DREXEL, MORGAN & CO.
Wall St. Corner Broad.
New York.
DREXEL & CO.
Philadelphia.
DREXEL, HARJES & CO.
Paris.

New York Dec. 26 1876

Thos. A. Edison Esq.
Menlo Park
N. J.

Dear Sir

Your favor of 23d with enclosures as stated, just to hand.

We beg to return herein for your signature to both one of the said Documents which please return at your earliest convenience.

Yours truly
Drexel Morgan & Co

Phila. Pa.
Dec. 26th 1878

T. A. Edison. Esq.

Yours of the 23rd is just received having been forwarded to me here where I am spending Christmas with my father. I would gladly lend you any apparatus I had but unfortunately we have no Incandescent machine of any sort. I ordered one long ago through Barker but it was never sent.

Any thing we have is at your service at any time.

Yours truly
Henry Norton.

DREXEL, MORGAN & CO.
Wall St. Corner Broad.
New York.
DREXEL & CO.
Philadelphia.
DREXEL, HARJES & CO.
Paris.

New York Dec. 26 1878

Thos. A. Edison Esq
Menlo Park
N. J.

Dear Sir,

Messrs J. P. Morgan & Co. write us under date of 14th inst, as follows: —

"Messrs Johnson Matthey & Co advise "having forwarded a further parcel to Mr. "Edison, as per enclosed invoice. Consuls "certificate & Messrs Harris Receipt to follow"

We now hand you above mentioned invoice, and remain,

Yours very truly

Drexel Morgan & Co

[ENCLOSURE]

FOLIO 345
OFFICES:
HATTON GARDEN,
LONDON.
E.C.

12. Decr 1878

Thomas A. Edison. esqr

Bought of Johnson, Matthey & Compy

Per Mrs. H. Parr &c

~~Oz~~ Cwts. qrs		India Platinum alloy wire						
1. 1. 12	✓	10 per cent Ir	.001	120/	6	9		
1. 1. 12	✓	20 " "	.01	50/	2	13	9	
1. 1. 6	✓	20 " "	.01	17/	1	18	3	
19. 12	✓	20 " " "	.005	60/	2	18	6	
19. 6	✓	20 " " "	.004	75/	3	12	3	
3.	✓	20 " " "	.003	90/	5	3	6	
1. 4. 13	✓	10 " " Foil	.0005	45/	2	15	2	
		Consul's certificate			13	10		
		Insurance			2	.		
						£ 20	27	12

Further on a/c of Order

10 Elmwood Place Leeds
England Dec. 26th 1878

Professor Edison
New York U.S. —

Sir

I wrote you a letter Dec. 12th inst enclosing two samples of oberon metallic powder which I believe to be platinum black & iridium as I extracted them from their ones, marked C.H. & C.O.R. which I asked you to try for your patent Electric Light. — On the 16th inst I wrote you also regarding enclosing you two other samples of oberon powder marked "1 sd. and 2 unsetted powder" and I stated that for the instant I could not extract platinum for less than 10/- per oz troy as far as my present experience cost and pose. But for the No 1 P.C.A. I should deliver you what I had on hand (about 400 oz) at 25/- per oz f.o.b. cash order. After more mature consideration I beg to withdraw the

offer to deliver at 25/ per th, because I find on casting up my cost to get it, it has cost me 3 or 4 times the amount per th I have quoted, and as C.H. & C.V.M. cannot possibly be produced for less than I quoted it, the No 1 is quite as valuable and ought to be the same price. Therefore in withdrawing my offer, I throw myself on your hands as a gentleman and a man of the world, not to hold me to my offer made under such circumstances, and put my samples aside untried because lest I have made a serious mistake and wish to rectify it at the earliest moment, not in a spirit of extortion but of little justice.

Because you say of another black powder prepared from No 1 C.E.A. which I can deliver to the extent of 3 to 400th per day at 18/ per th immediately on receiving your orders. I will deliver it either in this state or as I send it whichever you find the most suitable

(No 3)

C.J.

to your purpose, my own impression is, that this example (no 3) is more applicable for a candle than No 1. My friends tell me I am selling my iridium at a ridiculously low figure, that it is at present 7 to per oz in the market, but I reply, no trade could exist to supply the million to my such a price for its constituents, that I had better sell 50 to 100 tons a year of my powders at 10 per oz than as many lbs at 7 per oz, if I made any profit at all on my products. I hope you will find my theories are correct as to being platinum & iridium (I cannot see what else they can be) and if so, that you will send me an order for what I have on hand, and give me a address to that I can erect works for the regular extraction of

[3]

the C.H. & C.O.R. powders. The Quicksilver here say, "the scarcity of iridium and platinum, & the price so enormous that Edison's patent is sure to fail of being carried out, &c &c - With my knowledge of what I can extract & supply you, at such a moderate price, I inwardly laugh at such opinions, as very wide of the mark. - My discoveries coincident with your requirements clear away all difficulties of finding the necessary combustible portion of your Patent. Let me hear from you as early as you can.

Yours very respectfully
James Walker

PS I repeat I can only deliver what I have on hand of the 101 - or 3 - with certainty as I do not know whether I could recover any more - not. Quite after effecting a reduction would I can deliver regularly any reasonable quantity of C.H.&C.O.

Weymouth Mass Dec 27th 1878

Chas. Robbins

Dear Sir

Since writing you in regard to the burners for the Electric light I have noticed in a daily paper that you are making use of my composition i.e. Platinum & Iridium. I have been using it for the Oxy. Hydrogen light for about thirty years, and also for other purposes. If that light should be made use of to any great extent and I have no doubt but that it will there will be a demand for Iridium. I have quite a quantity and should you wish for any please make me an offer. I enclose a sample

Respectfully Yours

A. G. Roe

DREXEL, MORGAN & CO.
Wall St. Corner Broad,
New York.
DREXEL & CO.
Philadelphia.
DREXEL, HARJES & CO.
Paris.

New York Dec. 28. 1878.

Thomas A. Edison Esq
Menlo Park N.J.

Dear Sir:

Will you kindly sign the enclosed Documents in all the places designated thereon in pencil, returning same to us, so that we may be enabled to clear goods now in the Custom House

It is not necessary that your signature to oath be witnessed by a Notary Public.

We charge the cost of chemicals as per invoice sent you, say £ 27 1/2 to the Edison Electric Light Co

Messrs Johnson Matthey & Co write our London friends as follows: —

"With reference to our last Invoice on Mr. Edison's "account, we beg you to take note that the "Demium Black was, in consideration of its "peculiar nature sent in a damp state, "but the weight contained in the bottle was "equal to 5 oz. of the dry metal".

which please note

Yours truly
Drexel Morgan & Co

DREXEL, MORGAN & CO.
Wall & Exchange Broad.
New York.
DREXEL, & CO.
Philadelphia.
DREXEL, HARJES & CO.
Paris.

New York Dec 30. 1878

T. A. Edison Esq
Menlo Park
N.J.

Dear Sir

We return herewith for your indorsement

Sft Gold & Stock Tel Co.
on Bank of NY } $363.40

We pass same to your debit until returned to us again

Yours truly
Drexel Morgan & Co

DREXEL, MORGAN & CO.
Wall St. Corner Broad,
New York.
DREXEL & CO.
Philadelphia.
DREXEL, HARJES & CO.
Paris.

New York Dec 30 1876

Thos. A. Edison Esq
Menlo Park
N.J.

Dear Sir

Your favor of the 28th is at hand and I have written Mr Latham regarding platinum as you suggest.

Remain,
Yours truly
E. P. Tabb

☞ To prevent loss, please make remittances by DRAFT, POST-OFFICE ORDER OR REGISTERED LETTER. ☜

L. G. Tillotson & Co.,

Manufacturers, Importers and Dealers in

Railway and Telegraph Machinery and Supplies,

Car Upholstery and Trimmings of every description,

L. G. TILLOTSON. } E. S. GREELEY. } **No. 8 Dey Street,**

P. O. Box 1714. New York, Dec 30 1878

T. A. Edison, Esq
Menlo Park N. J.

Dear Sir.

The enclosed letter is from an old friend and customer of ours whom we have always found solid and reliable. He wants to be the Pioneer of the Electric Light in his State. Should it be found that Electric Light is practicable for general use. I enclose this letter for your information thinking there might be some business in it for your Co. If so please advise us what to say to Mr Meriwen, as you can address him direct.

Please return Mr Meriwen

☞ To prevent loss, please make remittances by DRAFT, POST-OFFICE ORDER OR REGISTERED LETTER. ☜

L. G. Tillotson & Co.,

Manufacturers, Importers and Dealers in

Railway and Telegraph Machinery and Supplies,

Car Upholstery and Trimmings of every description,

L. G. TILLOTSON. } E. S. GREELEY. } **No. 8 Dey Street,**

P. O. Box 1714. New York, _____ 187

letter to us soon as you pass upon it

Yours Truly
Mott. Goodyear

THE EDISON ELECTRIC LIGHT CO.
5 BROAD STREET.

Western Union Tel. Co.
M. M. Galaway, V. Pres.
R. F. Pattison, Treas.
C. Gorham, Sec'y.

New York, Decem 31st 1878

Thomas A. Edison Esq
Menlo Park

Dear Sir

The invoice of platinum will probably be out of the Custom House today & will then be sent to you without delay. Mssr Baldwin Bros & Co say that delivery of these shipments may be expected as they are allowed to make the C.H. entries &c. Mr Fabbri has no particular desire to take the matter out of their hands, particularly as Baldwin Bros think the business can be more cheaply & expeditiously done through them. I have therefore arranged that hereafter the certified invoices shall be placed in their hands.

Yours truly

Edward Jay

2 Dec 31, 78
N.Y. 31 12 m

Thomas A Edison
m

Telegraph Austin
Baldwin Company
Standing order to
hand us all documents
relating shipments
Chemicals Your account
Drexel Morgan & Co

Repaid
Mag

2 No. 31. Dec 31 '78

Baldwin Bros & Co
72 Broadway NY

Until further notice please
hand Drexel Morgan & Co
all documents Chemicals
and Minerals which
you receive to my
address
T A Edison

NWTT
1205
Gma

Geo. E. Blackham, M.D. President

C. P. Alling, M.D. Secretary.

Dunkirk Microscopical Society

Dunkirk, N.Y. Dec 31 1879

Thomas A. Edison Esq
Menlo Park N.J.

Dear Sir

I take the liberty of inclosing you an impression copy of a note which I have addressed to the Editor of the New York Times anent their comments on a report which you are said to have made to the effect that the Electric Light was not available for microscopical illumination.

I feel confident that you have been misreported in this case as I know you have been in other. Give us the electric light in a cheap and convenient shape and we will take care of the interference image and the effects of glare, will do better work with our microscopes than ever before.

Very Respectfully
Geo. E. Blackham

Will you pardon a stranger for wishing you a "Happy New Year"

[ENCLOSURE]

[TRANSCRIPTION FOLLOWS]

Dec 31 77

[ENCLOSURE]

[TRANSCRIPTION FOLLOWS]

[illegible] was read the following report made
[illegible] January 1876 by Mr Sorby, [illegible]
[illegible] Microscopist to the Surgical General's
[illegible] the use of the Magnesium and Electric Light for
photomicrography, and of having the splendid and
[illegible] magnified photos of various microscopic
objects taken by Dr Woodward, can testify.
I have no doubt in my mind that if the an object be illuminated
with the unmodified beam from a powerful electric lamp
and an atmosphere made to glimmer with an object or
a microscope slide will be seen only a dazzling electric
~~[illegible]~~ and the small
~~[illegible]~~ ~~[illegible]~~
Sunlight be substituted for that from the electric lamp.
That this result is not due to light from either the
sun or the electric lamp - "testing the properties of various
microscopic objects when placed under the object glass
to amplify power by the most splendid photographs
can be and have been taken of microscopic objects
when illuminated by either sun or electric light
having modified and constructed my complete apparatus
(not necessarily at all complicated) and that objects can
be clearly seen and perfectly defined even with the
highest powers when so illuminated.
The intensely beautiful and complex microscopic objects

[ENCLOSURE]

[TRANSCRIPTION FOLLOWS]

as the same objective phenomena, due to interference, and first [illegible] phenomena due to the sub-that." the retina of the human eye is habituated to a certain given intensity of illumination, which is many degrees below that at electricity and any very material advance in intensity must necessarily prove irritating" - in other words the eye is dazzled by the excess of brilliancy - and is unable to perceive the proper image of the object but very distinct, a series of brilliant colored rings which can only be reduced to a moment ~~that~~ the retina observation of which may have their complementary image imprinted upon the retina for weeks or even permanently injure the normal power.

It is not my purpose to discuss here, the optical laws and methods by which the direct light of the sun or of the electric lamp may be so changed and controlled as to make them available for microscopical illumination, they are well known to microscopists and ~~the~~ discussion would not interest others. I prefer to place upon record the fact that the electric light, sun and lamp, is used for microscopical illumination in my opinion. If Mr Edison will only furnish the light in a practical and convenient form, we will take [illegible] of microscopists, and

[ENCLOSURE]

[TRANSCRIPTION FOLLOWS]

[illegible] Positive [illegible]
[illegible] for microscopic work, to [illegible]
[illegible] in many ways specially suited, and will
get rid of the beautiful and complete mounts
effects without any trouble or the purchase of a costly
piece of apparatus not already in the possession of
every one who owns a really good microscope.

Yours Respectfully
Ed. A. Blackman M.D.
President Brooklyn Microscopical
Society

[ENCLOSURE]

[TRANSCRIPTION FOUND IN DOCUMENT FILE]

/

Dec 31, 1878

Editor of New York Times

In a brief note on the electric light on the editorial page of your issue for Dec 30, 1878 I find the following: "Now the retina of the human eye is habituated by a certain given intensity of illumination, which is many degrees below that of electricity, and any very (increased) advance in intensity must (then) only prove irritating. But this is by no means the (main point). In a recent conversation with a member of the (Times staff, Mr. Edison made the curious statement that it was not available (of) microscopic illumination. In other words it lacks the property of visualizing microscopic objects when placed under the object glass, and produces instead, simply certain intensely beautiful and complex prismatic effects."

This is certainly a very curious statement, so curious indeed that we may be pardoned for doubting that the member of the Times staff understood Mr. Edison aright. That it is not a correct statement is certain as there

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who have had the pleasure of reading the report made in January 1870 by Asst. Surgeon (now full Surgeon) J. J. Woodward, U.S.A., to the Surgeon General on the use of magnesium and Electric Lights in ~~Micro~~ Photomicrography and of seeing the splendid and highly magnified pictures of various microscopic objects taken by Dr. Woodward, can testify.

It is doubtless true that if an object be illuminated with the unmodified beam from a powerful electric lamp and an attempt be made to examine such object with a microscope there will be seen only a dazzling "display of complex ~~prismatic~~ prismatic effect" and the same thing will occur when if a beam of direct and unmodified sunlight be substituted for that from ~~x~~ the electric lamp — That this result is not due to light from either the sun or the electric lamp — "having the property of rendering microscopic objects when placed under the object glass" is amply proven by the fact that splendid photographs can be and have been taken of microscopic objects when illuminated by

[ENCLOSURE]

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either sun or ~~electricity~~ electric light properly modified and controlled by suitable apparatus ((not necessarily of all complicality)) and that objects can be clearly seen and perfectly defined even with the highest powers when so illuminated.

The extremely beautiful and complex prismatic effects (page 3) are in part objective phenomena, due to interference, and in part subjective phenomena due to the fact that "the retina of the human eye is habituated to a certain given intensity of illumination which is many degrees below that of electricity and any or any material advance in intensity must ? necessarily prove irritating" in other words, the eye is dazzled by the excess of brilliancy and is unable to perceive the proper image of the object but sees, instead, a series of brilliant colored rings which can only be endured for a moment, and the incautious observation of which may leave these complimentary images impressed upon the retina for weeks or

[ENCLOSURE]

[TRANSCRIPTION FOUND IN DOCUMENT FILE]

even permanently injure the visual powers.

It is not my purpose to discuss here the apparatus and methods by which the direct light of the sun or the electric lamp may be so modified and controlled as to make them available for microscopical illumination. They are well known to microscopists and this discussion would not interest others. I only wish to place upon record the fact that the electric light has been and can be used for microscopical illumination and my opinion that if Mr. Edison will only furnish this light to us in a cheap and economical form, we will hail him as the especial benefactor of microscopists, nor (page 4) the electric light is the practical equivalent of all other artificial light for microscopical work, to which it is in many ways specially suited, and will get rid of beautiful and simply prismatic effects without any trouble or the purchase of a single piece of apparatus not already in the possession of every one who owns a really good microscope. — Yours ~~Very~~ Respectfully

Geo. E. Blackham M.D.
President (Dublin) Microscopical Society

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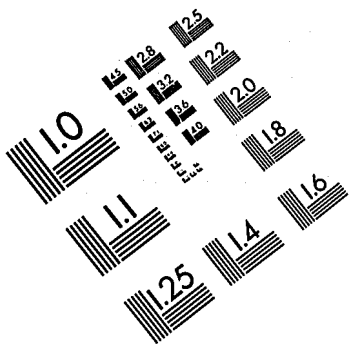

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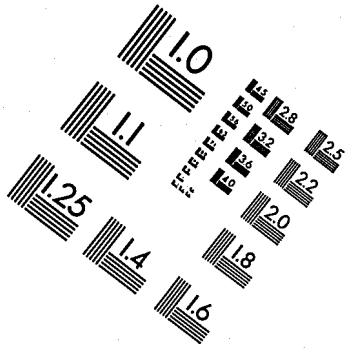

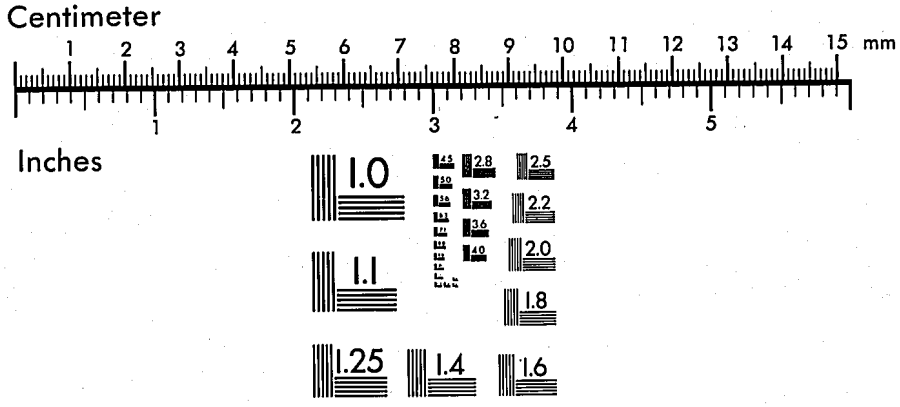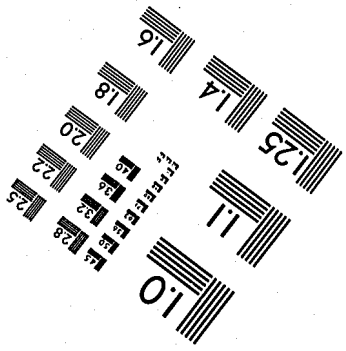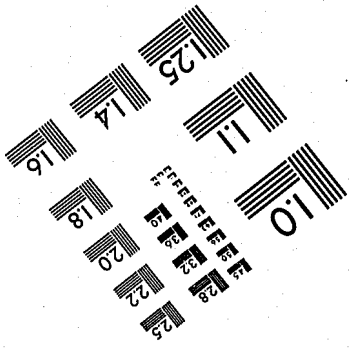
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